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THEORETICAL INVESTIGATION OF LOADS ON BURIED STRUCTURES. VOLUME--ETC(U)

AUG 78 R R ROBINSON

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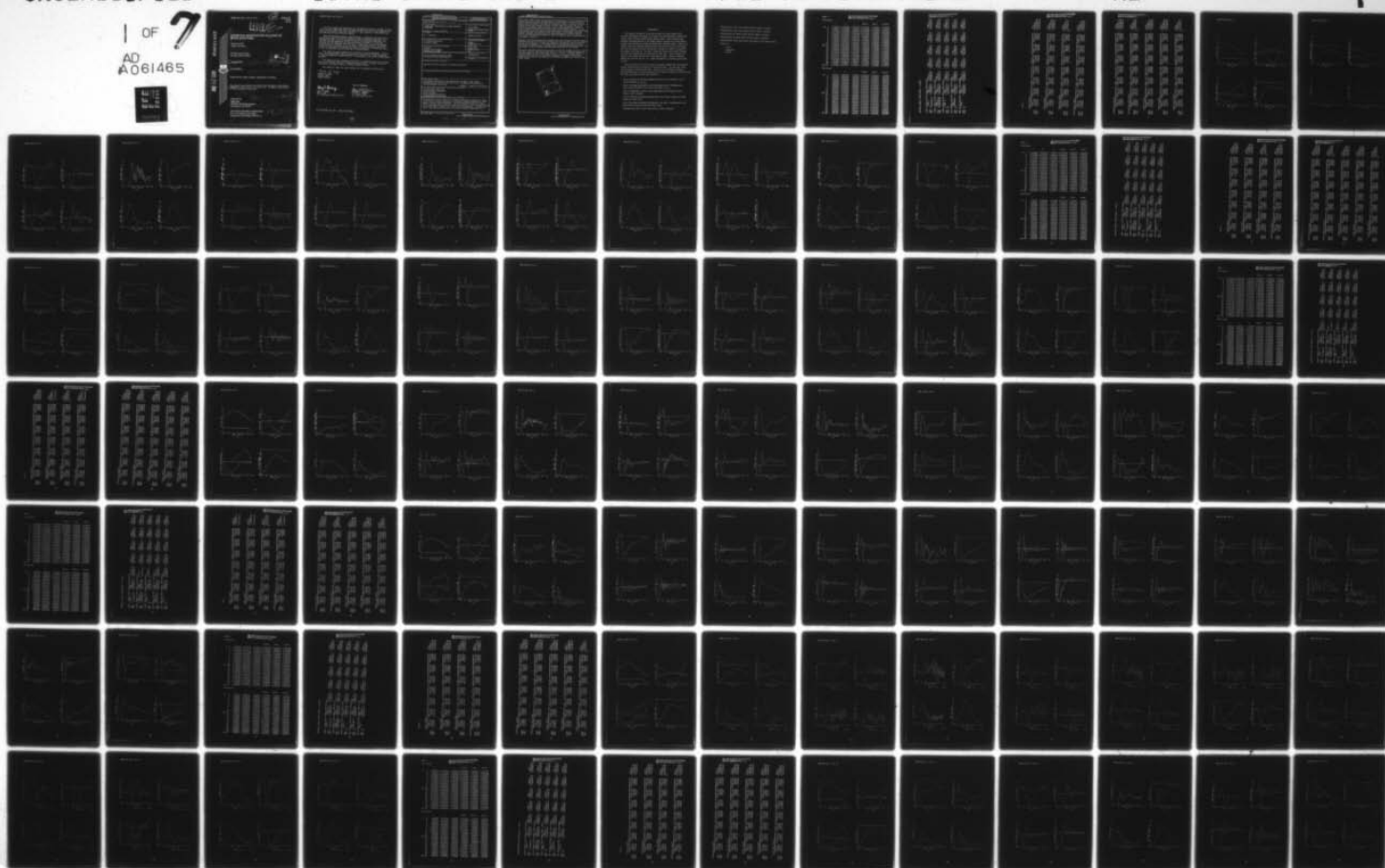
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IITRI-J6378-VOL-2

AFWL-TR-78-6-VOL-2

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A061464**THEORETICAL INVESTIGATION OF LOADS ON  
BURIED STRUCTURES**Volume II of II  
Tables and Plots

R. R. / Robinson

IIT Research Institute  
Chicago, Illinois 60616DDC  
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) The objective of this project was to develop simplified techniques for determining loads on buried structures of cylindrical geometry subjected to severe dynamic airblast load environments. The data forming the basis for these design loads have been primarily derived from numerical, finite element analyses for a wide range of loading, soil, and structural parameters. The numerical results were generated exclusively during this research investigation.		

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The primary effort during the program was the generation of soil structure interaction loads and internal cylinder forces for horizontally oriented cylinders. Both static and dynamic solutions were obtained to study in a more or less systematic manner the loads and internal cylinder forces for variations of the structural stiffness, depth of burial, and soil media parameters. Depths of burial ranged from one-half the tunnel radius to two tunnel diameters. A concrete tunnel liner with radius to thickness ratios varying from 4 to 15 were used and two nonlinear soil materials were incorporated in the dynamic solutions. Simple triangular airblast loads with peak overpressures of 500 to 1500 psi (3.45 and 10.34 MPa) and durations of 0.015 to 0.060 sec were incorporated with the dynamic solutions.

Dynamic free-field solutions were obtained using the triangular airblast loading waveforms and the two nonlinear soil materials, and also for certain variations to the soil parameters. A simplified method for determining loads on buried structures was defined by N. M. Newmark Consulting Engineering Services early in the project, based on methods that have been used prior to this project.

The major conclusion drawn from the project is that the concept of using a few of the soil structure interaction modal loads to arrive at a simplified method of loading appears to have a great deal of merit. In fact, it appears that it is generally sufficient to use only modes 0 through 2 to obtain a sufficiently detailed definition of the loading to satisfactorily compute the internal tunnel liner forces.

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## INTRODUCTION

This portion (Volume II) of the final report for IITRI Project J6378 entitled "Theoretical Investigation of Loads on Buried Structures" contains the results from 36 dynamic loading finite element cases. These solutions were obtained from modifications to the SAMSON computer program and a postprocessor program that generated the tables and GOULD plots contained herein. Table IV in Volume I gives the important parameters that were varied for each of the cases. Note that the results for case 5 are given in Volume I in tables V through VII and figures 20 through 29. The case 5 tables and figures were used to describe in detail the results that were generated for each case. Case 5A results are given in this volume and this case is the same as case 5, except no material damping was used for case 5A; i.e., damping parameters  $b_1$  through  $b_4$  were taken as zero.

The results for each of the 36 cases are grouped together with the tabulated results presented first followed by the plotted results. For each case, there are four pages of tables and 48 plots. Section III.3 of Volume I contains a detailed discussion of the data presented in the tables and plots for each solution. The tables and plots for each case consist of:

- . Table of Minimum and Maximum Nondimensional Liner Force Resultants (T,M,V) and SSI Stresses ( $\sigma_r, \sigma_\theta, \tau_{r\theta}$ )
- . Table of Minimum and Maximum Fourier Modal Amplitudes of Nondimensional Liner Force Resultants (T,M,V) and SSI Stresses ( $\sigma_r, \tau_{r\theta}$ )
- . Table of Comparison of Modal History Approximation with SAMSON solution history (Input Variable)
- . Plots of Minimum and Maximum Nondimensional Liner Thrust, Moments and Shear around the Tunnel Liner
- . Plots of Minimum and Maximum Nondimensional SSI Radial, Circumferential and Shear Stress Variation around the Tunnel Liner
- . Nondimensional Tunnel Liner Thrust History, Modes 0 through 6

- . Nondimensional Tunnel Liner Moment History, Modes 0 through 6
- . Nondimensional Tunnel Liner Shear history, Modes 1 through 6
- . Nondimensional SSI Radial Stress History, Modes 0 through 6
- . Nondimensional SSI Shear Stress History, Modes 1 through 6
- . Nondimensional Tunnel Liner Thrust and Moment and SSI Radial Stress

History at:

- . Crown
- . Springline
- . Invert



## CASE 1

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## MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.096240	-.0194883	-.067457	-1.791917	-.613377	-.023991
	2	-.084704	-.0181586	-.142744	-1.603364	-.543167	-.113919
	3	-.044936	-.0152508	-.229359	-1.409183	-.518028	-.051272
	4	-.027914	-.0127848	-.278749	-1.297709	-.416877	-.027253
	5	-.030179	-.0091700	-.308172	-1.043156	-.442577	-.005225
	6	-.036505	-.0191822	-.341005	-.841851	-.385433	-.005743
	7	-.025916	-.0347957	-.323713	-.639244	-.393786	-.005637
	8	-.030961	-.0482001	-.321743	-.489300	-.348121	-.000567
	9	-.013950	-.0606971	-.291689	-.412604	-.294860	-.025687
	10	-.015290	-.0706986	-.267716	-.400607	-.289354	-.088948
SPR	11	-.022817	-.0779026	-.232183	-.253413	-.279893	-.122969
	12	-.029325	-.0823688	-.224714	-.300046	-.248352	-.152538
	13	-.029476	-.0868372	-.139509	-.346660	-.192627	-.157226
	14	-.022724	-.0928822	-.056427	-.387462	-.158037	-.171586
	15	-.019182	-.0917663	-.057022	-.439295	-.171857	-.178756
	16	0.000000	-.0821573	-.070659	-.436956	-.164752	-.173801
	17	0.000000	-.0654228	-.063271	-.468778	-.178282	-.184359
	18	0.000000	-.0388624	-.044365	-.413272	-.121111	-.165471
	19	0.000000	-.0082453	-.074924	-.450786	-.222289	-.215388
	20	0.000000	-.0071758	-.068048	-.468039	-.176772	-.186457
INV	21	-.065305	-.0098108	-.085718	-.528106	-.201897	-.196279
	22	-.134386	-.0139203	-.088614	-.606627	-.227824	-.141521
	23	-.197857	-.0189427	-.059747	-.660353	-.248555	-.130864
	24	-.230356	-.0215707	-.024596	-.670361	-.260825	-.039123

## MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.589117	.0593337	.013956	0.000000	0.000000	.110785
	2	.611575	.0560426	.035070	0.000000	0.000000	.222742
	3	.673132	.0526245	.047535	0.000000	0.000000	.341315
	4	.719625	.0437897	.060253	0.000000	0.000000	.270219
	5	.785320	.0371796	.060914	0.000000	0.000000	.354778
	6	.853923	.0248556	.080683	0.000000	0.000000	.271092
	7	.883433	.0112868	.063869	0.000000	0.000000	.290567
	8	.903255	.0083118	.083493	0.000000	0.000000	.181061
	9	.886047	.0138897	.041506	0.000000	0.000000	.218294
	10	.841771	.0162295	.093345	0.000000	0.000000	.164482
SPR	11	.788958	.0170890	.149693	0.000000	0.000000	.104929
	12	.717896	.0190619	.189038	0.000000	0.000000	.065708
	13	.641812	.0181286	.221226	0.000000	0.000000	.080002
	14	.565694	.0171355	.249381	0.000000	0.000000	.044125
	15	.537386	.0136187	.257890	0.000000	0.000000	.070441
	16	.518944	.0118344	.277973	0.000000	0.000000	.065840
	17	.486511	.0099351	.299044	0.000000	0.000000	.075459
	18	.450600	.0172691	.380525	0.000000	0.000000	.096272
	19	.363244	.0245430	.425180	0.000000	0.000000	.074423
	20	.315705	.0347569	.420064	0.000000	0.000000	.113140
INV	21	.248433	.0549273	.358977	0.000000	0.000000	.126322
	22	.243302	.0792923	.276214	0.000000	0.000000	.039024
	23	.246472	.0959150	.177400	0.000000	0.000000	.037228
	24	.261579	.1045897	.062076	0.000000	0.000000	.029152



MIN-MAX MODAL AMPLITUDES -- CASE 1

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	.11590E+00	.28013E+00	.12327E+00	.47756E-01	.17462E-01	.61797E-02
MAX	.52839E+00	.34340E+00	.86938E-01	.85326E-01	.45606E-01	.28015E-01	.16680E-01

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	.27524E-02	.20950E-03	.18395E-01	.30739E-01	.14437E-01	.55343E-02	.19691E-02
MAX	.18671E-05	.67686E-03	.78318E-01	.29161E-01	.67911E-02	.34743E-02	.12030E-02

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	.91211E-02	.27809E+00	.16201E+00	.60450E-01	.22679E-01	.79992E-02
MAX	0.	.10221E-01	.66114E-01	.15221E+00	.10090E+00	.52717E-01	.24647E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	.37955E+00	.54992E+00	.39188E+00	.27977E+00	.17346E+00	.90298E-01	.38157E-01
MAX	0.	.16004E+00	.47849E-01	.18106E+00	.20763E+00	.17314E+00	.10231E+00

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	.63190E-01	.31353E-01	.47219E-01	.50116E-01	.65886E-01	.48545E-01
MAX	0.	.59068E-01	.15422E+00	.12053E+00	.78648E-01	.40745E-01	.17187E-01

CASE 1

CROWN THRUST

MODE 0	MODLS 0-1	MODAL HISTORY/INPUT	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.016212	.001716	.000060	.002156	.001493	.001847	.001999	.001847	VARIABLE
MIN.	.456387	.711564	.817977	.997411	1.064923	.991999	.995619	.995619	-.96240E-01
MAX.	1.423956	1.262992	1.066972	.995299	.984536	.995619	.995619	.58912E+00	

CROWN MOMLNT

MODE 0	MODLS 0-1	MODAL HISTORY/INPUT	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.025917	.002813	.001152	.001842	.001538	.000373	.000373	.000373	VARIABLE
MIN.	.113207	.948804	.951504	.998144	.967127	1.011074	1.011074	1.011074	.17704E-02
MAX.	.000916	1.287033	1.237560	1.105072	1.025281	1.001863	1.001863	1.001863	-.19488E-01

5

CROWN SSI STR-R

MODE 0	MODLS 0-1	MODAL HISTORY/INPUT	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.006278	.003546	.001959	.001920	.003099	.003013	.003013	.003013	VARIABLE
MIN.	.211811	.495559	.708159	.858690	.948091	.993540	.993540	.993540	-.17919E+01
MAX.	0.000000	.042438	0.000000	.005729	.047206	.030320	.030320	.030320	0.

SPRINGLINE THRUST

MODE 0	MODLS 0-1	MODAL HISTORY/INPUT	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.008922	.008273	.003066	.000515	.000725	.000383	.000383	.000383	VARIABLE
MIN.	0.000000	0.000000	1.307238	1.121651	.752410	.888874	.888874	.888874	-.29325E-01
MAX.	.736020	.761598	.994690	1.027387	1.015686	1.005140	1.005140	1.005140	.71740E+00

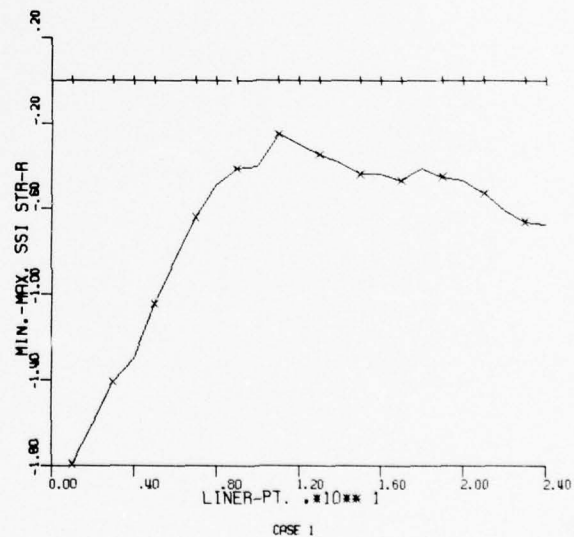
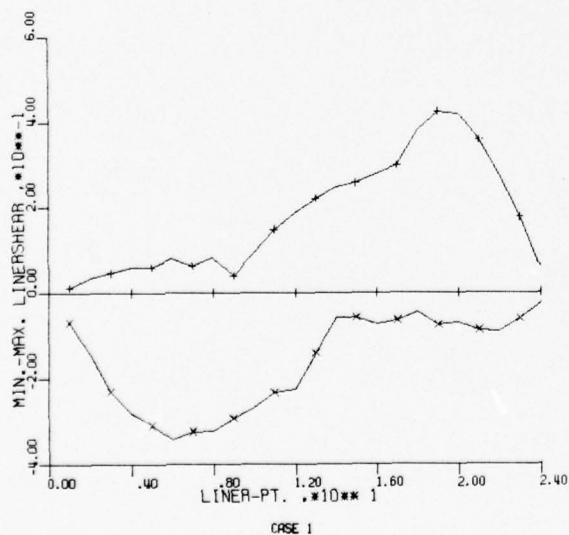
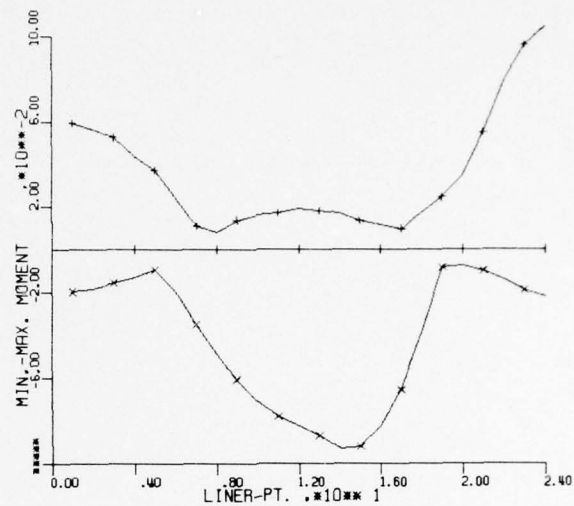
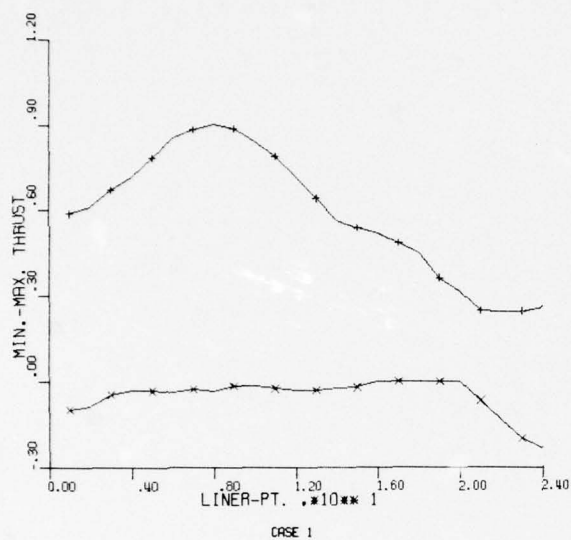
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VARIABLE .82369E-01  
INPUT .19062E-01

SPRINGLINE SSI STR-R  
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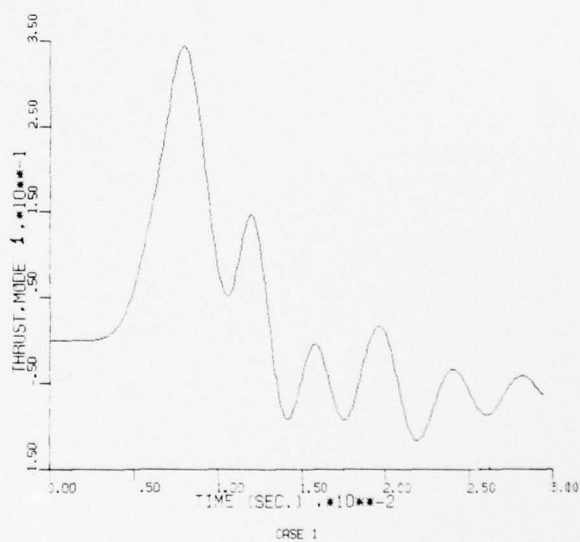
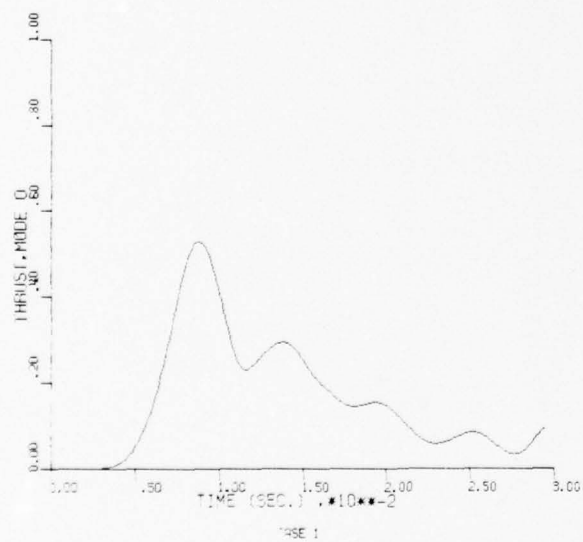
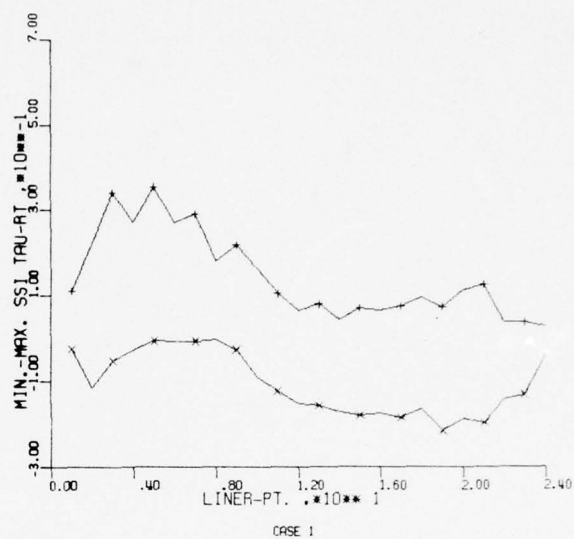
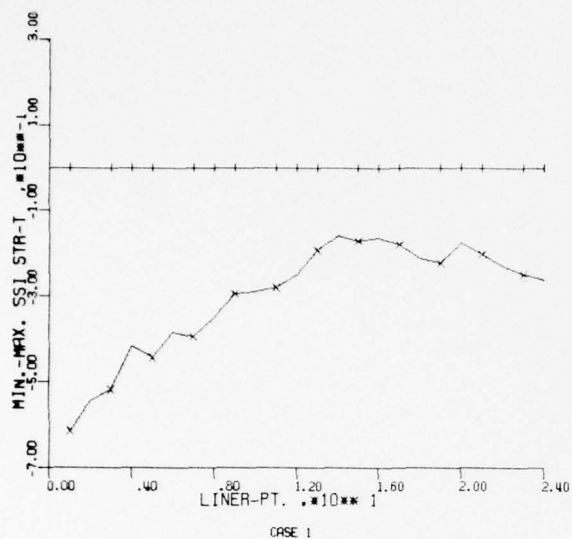
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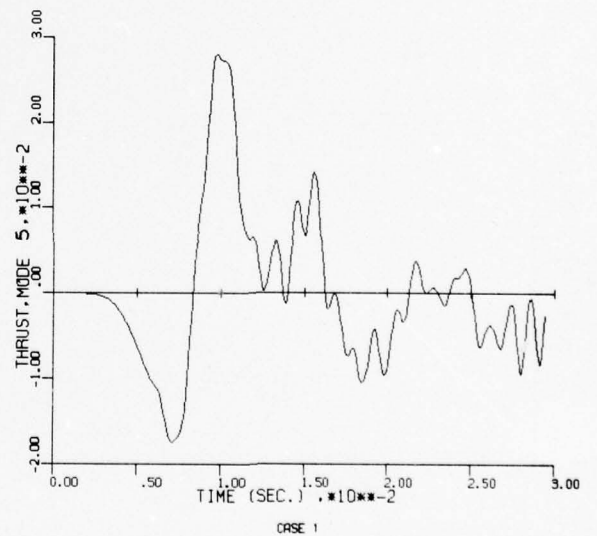
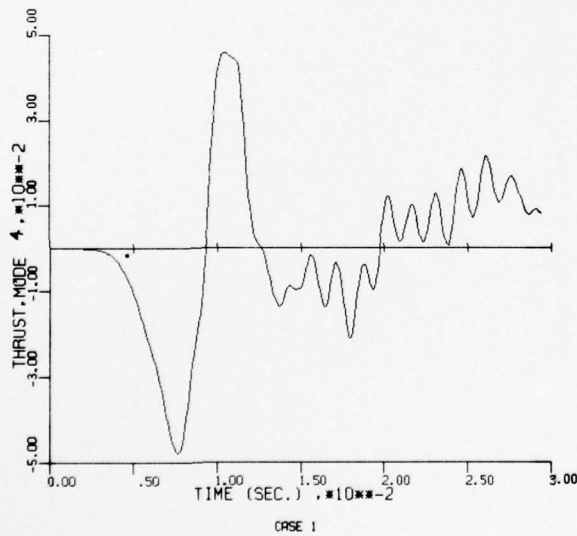
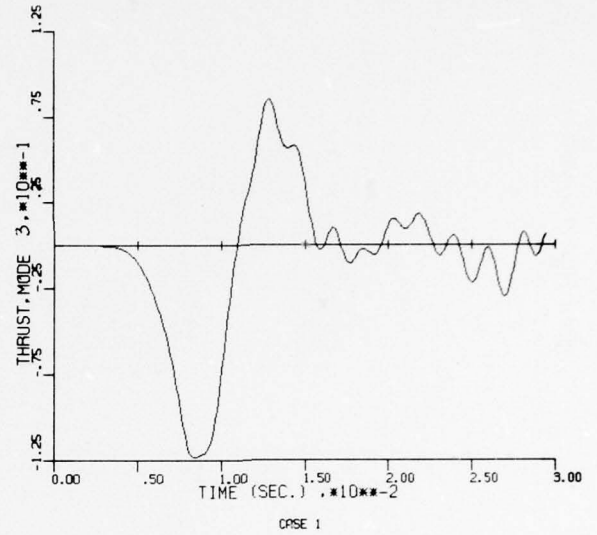
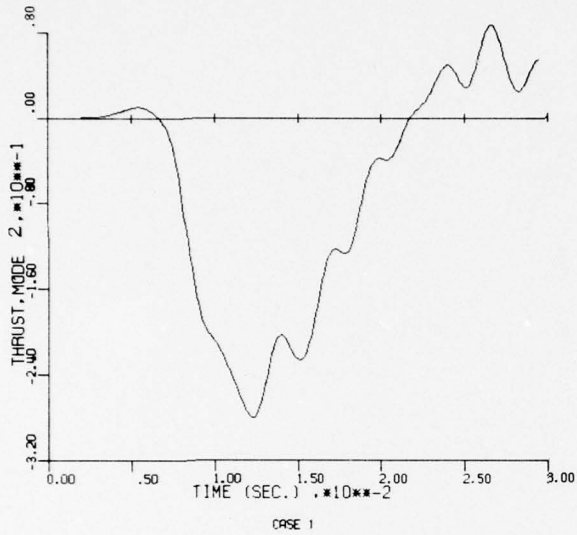
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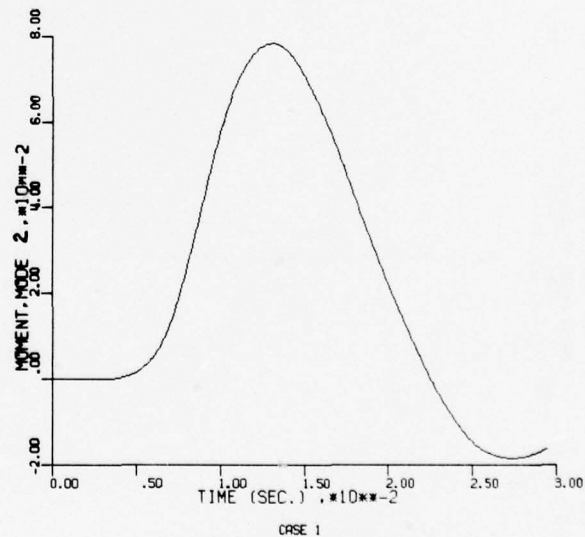
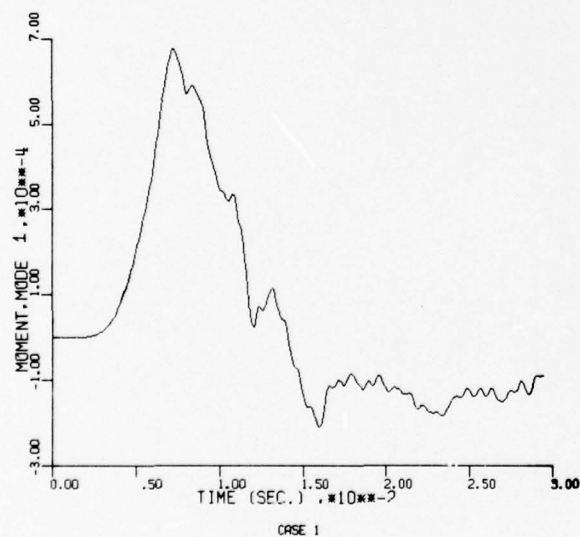
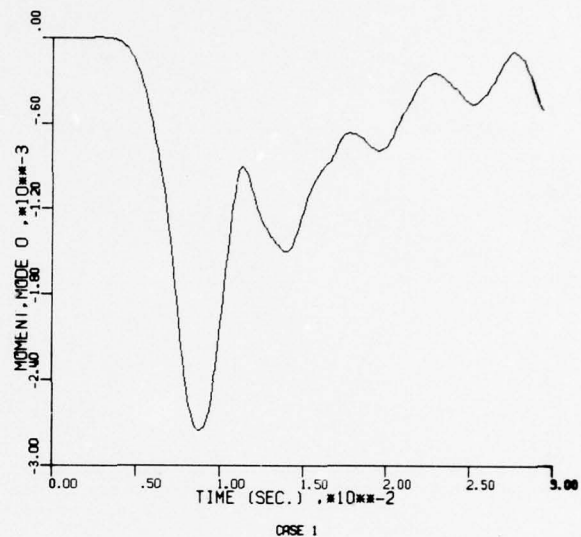
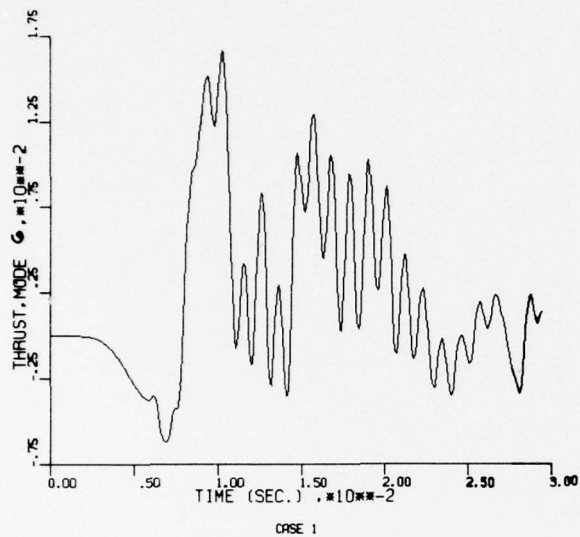
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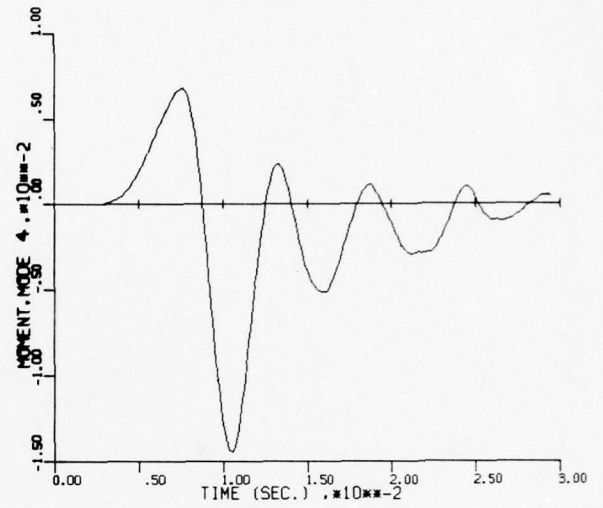
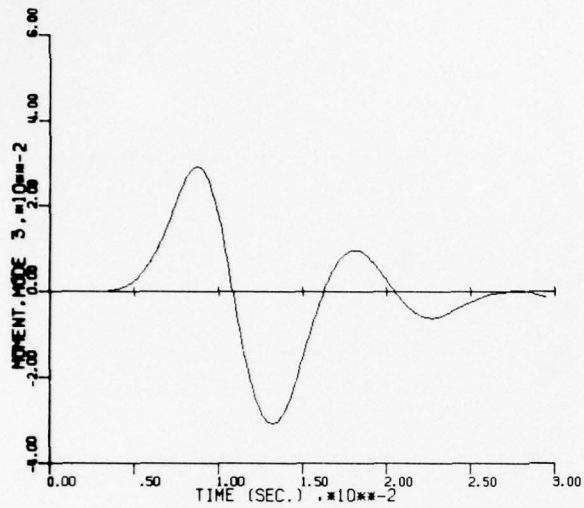




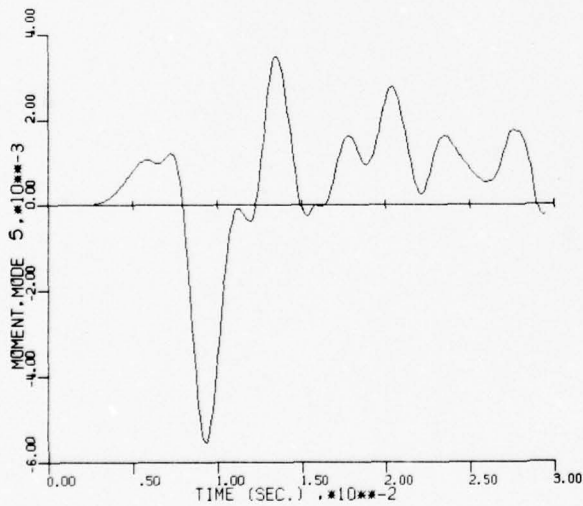




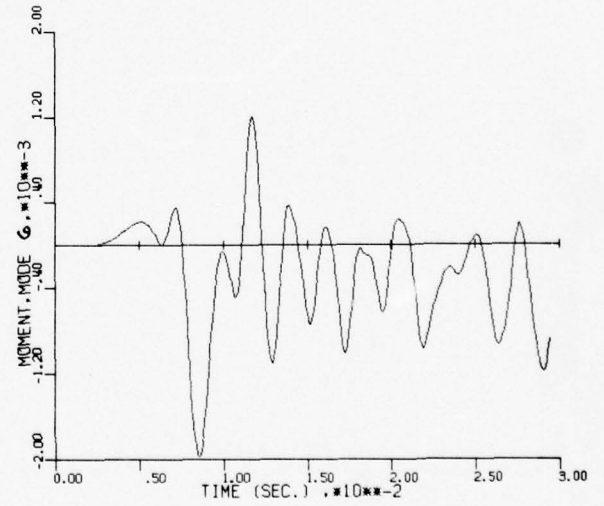




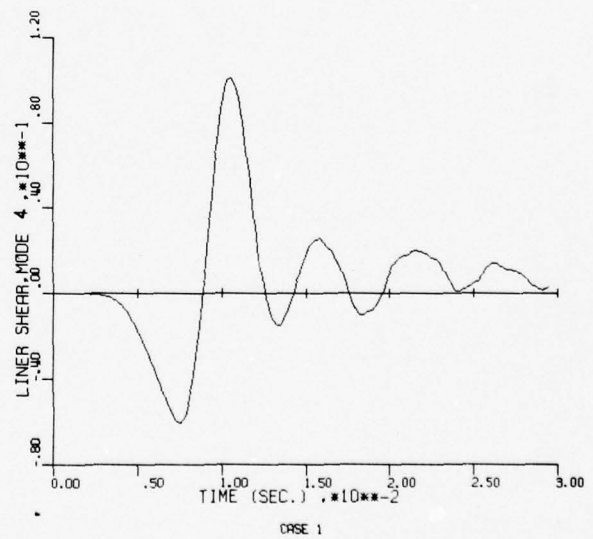
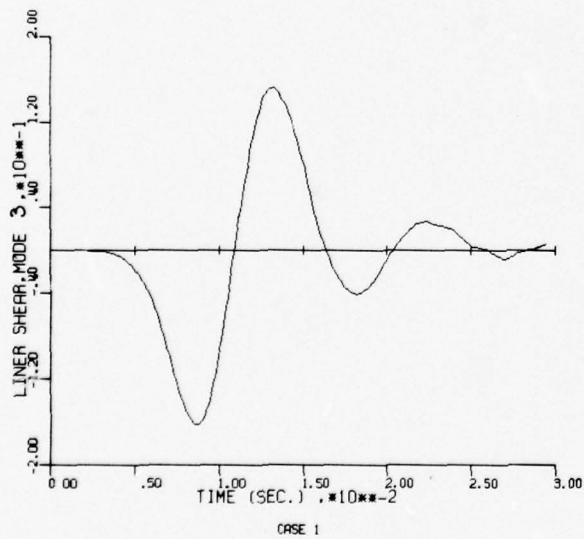
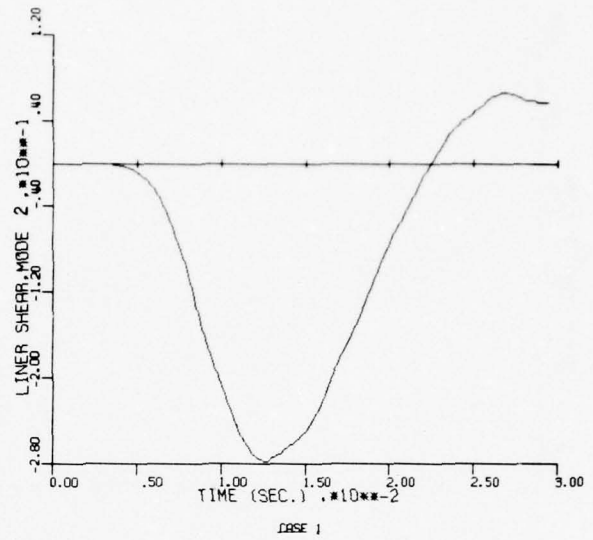
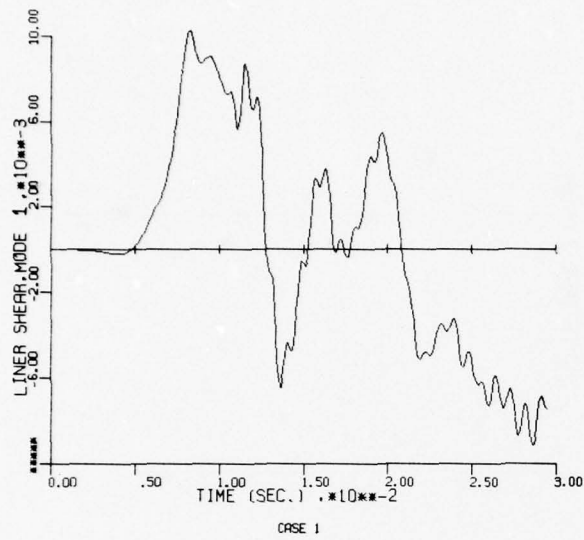
CASE 1

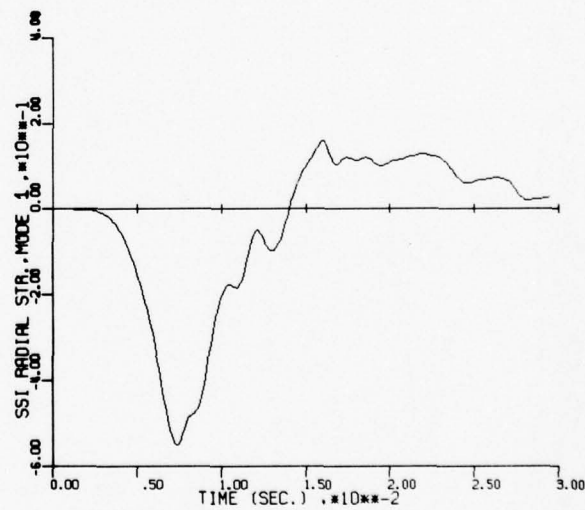
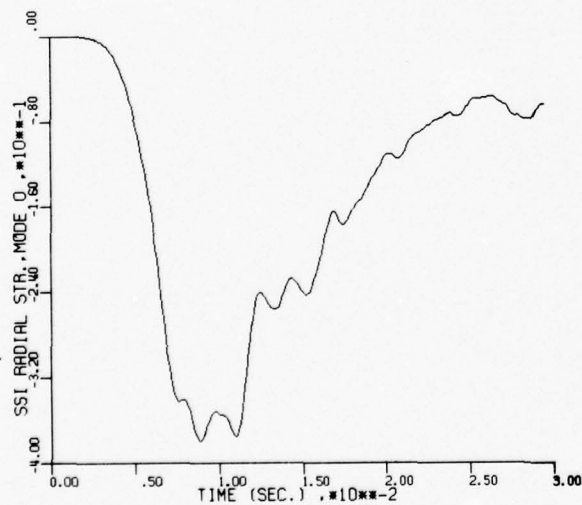
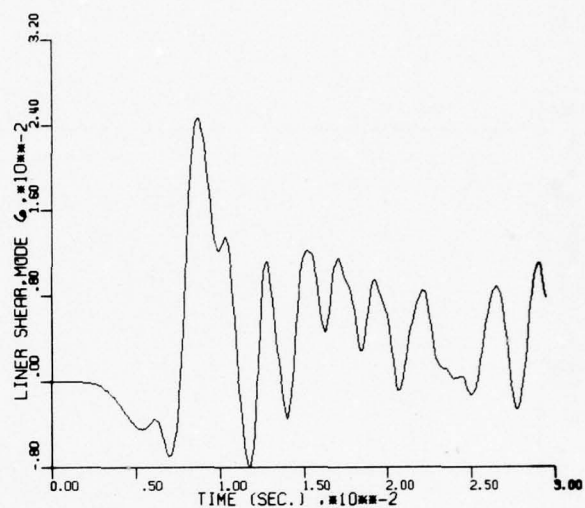
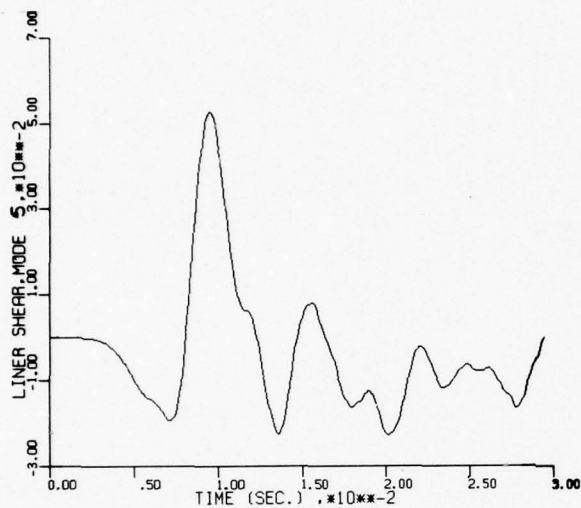


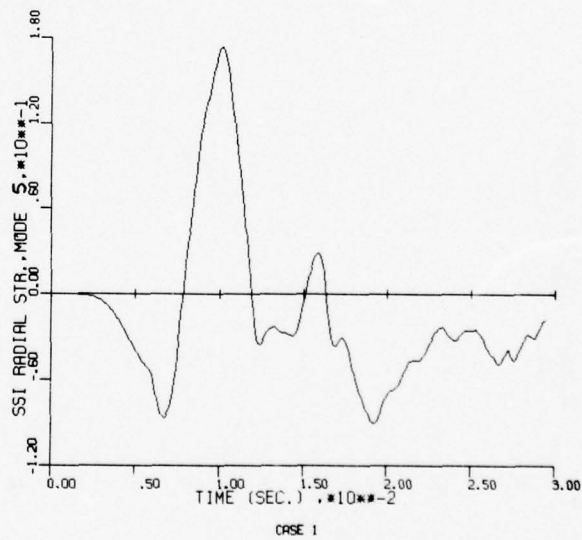
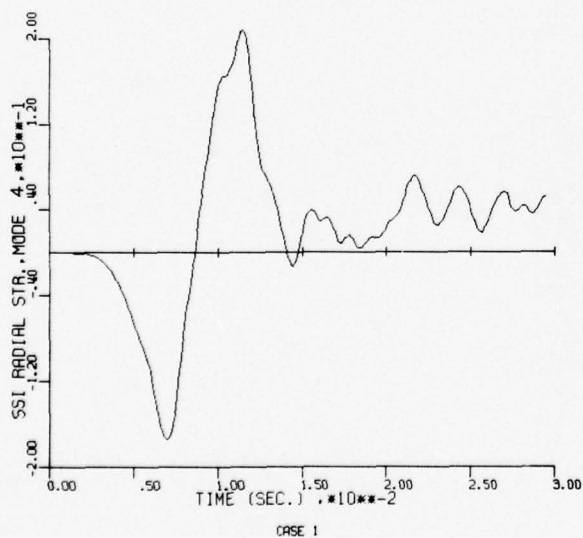
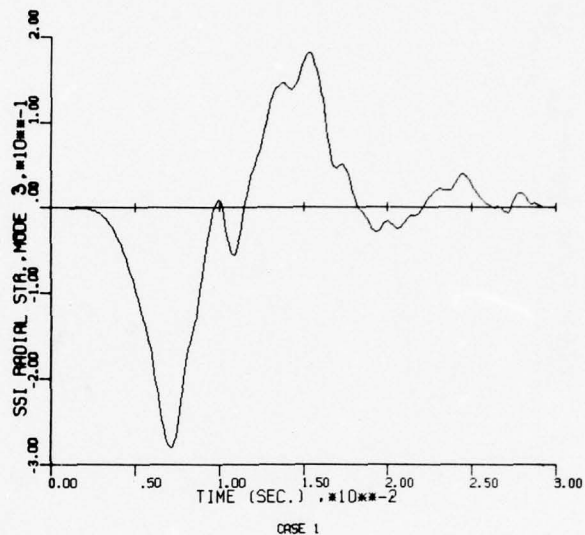
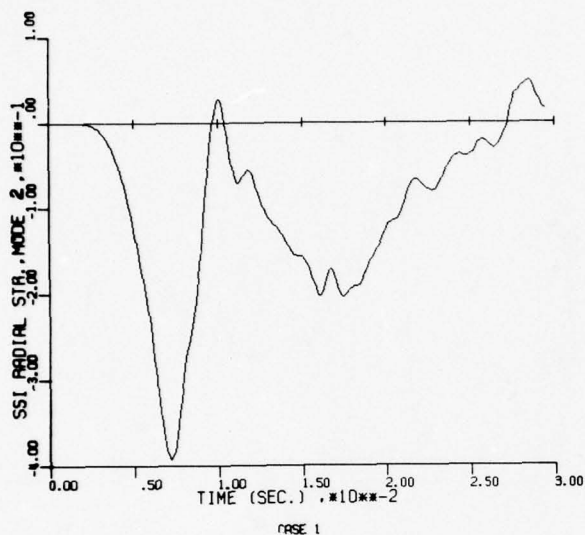
CASE 1

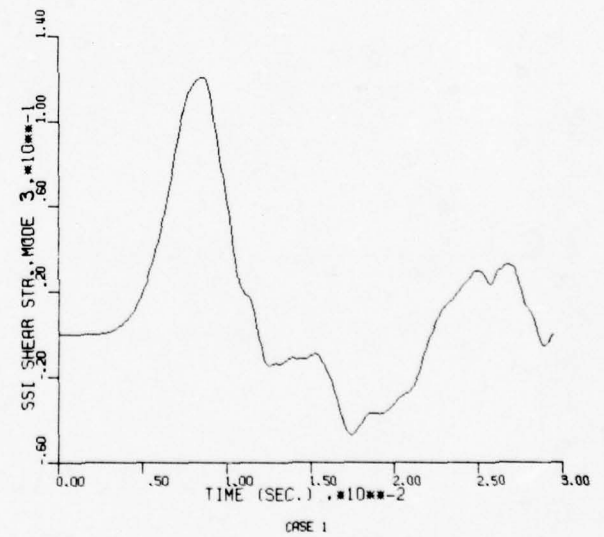
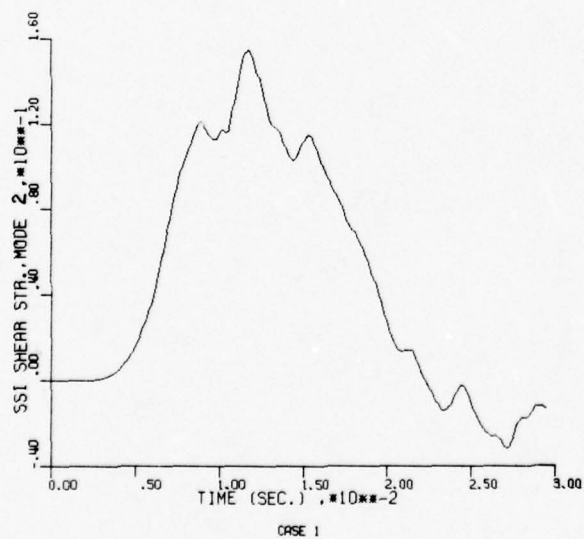
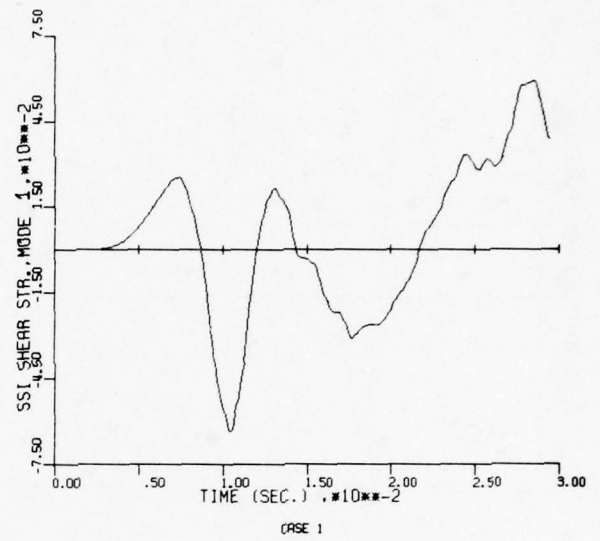
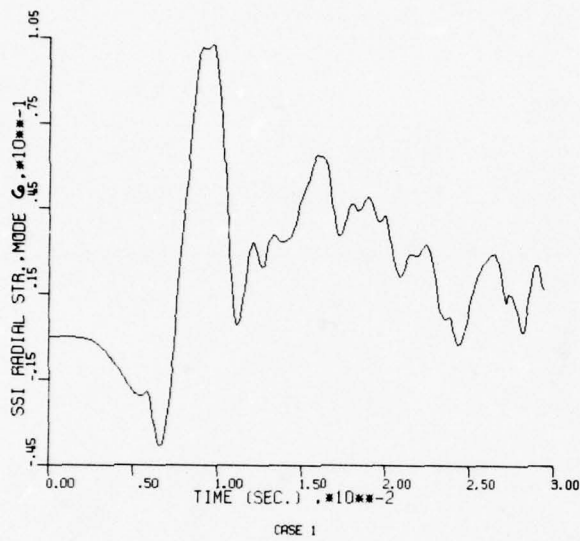


CASE 1

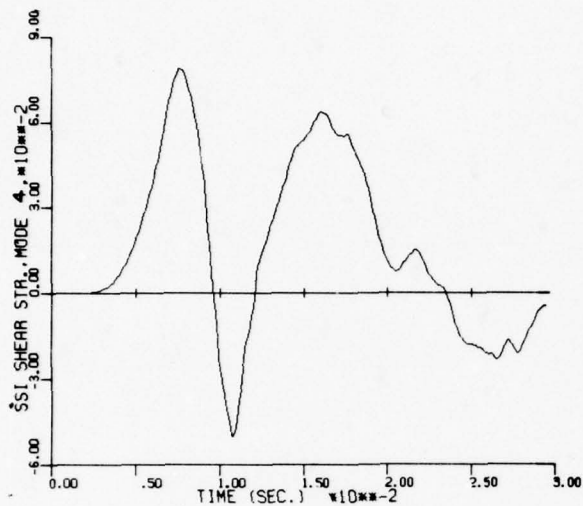




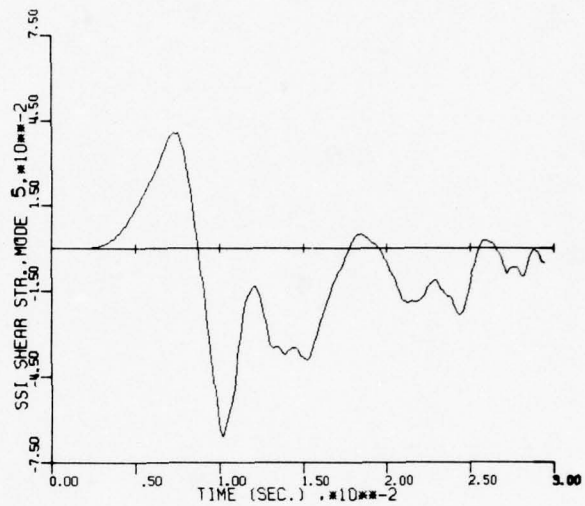




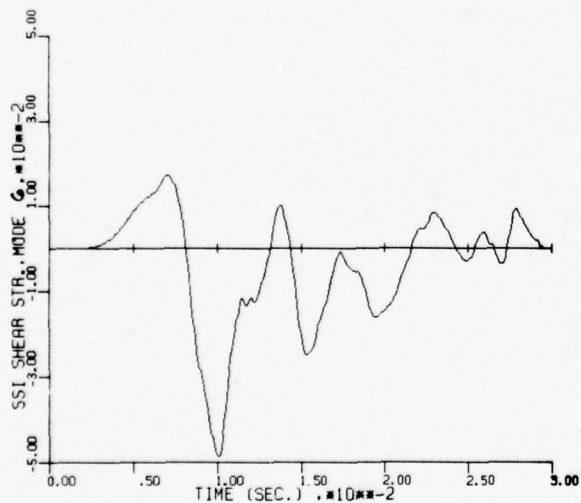




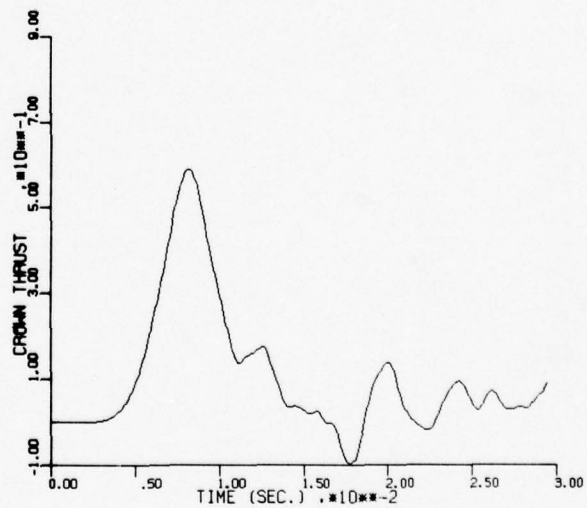
CASE 1



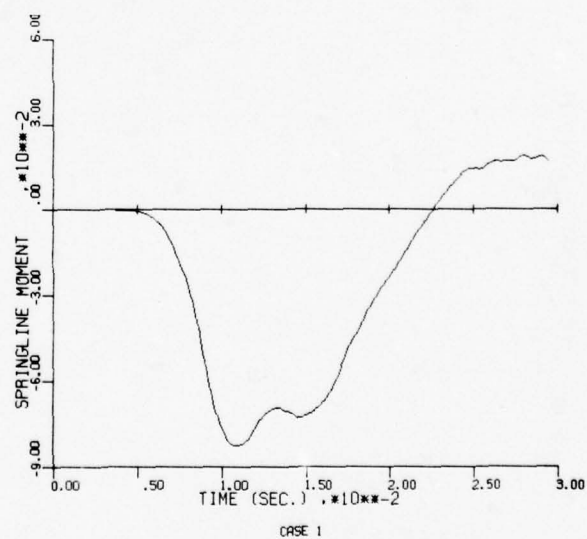
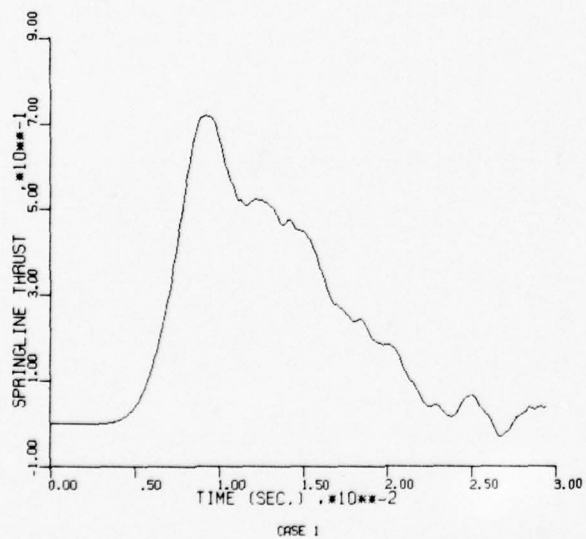
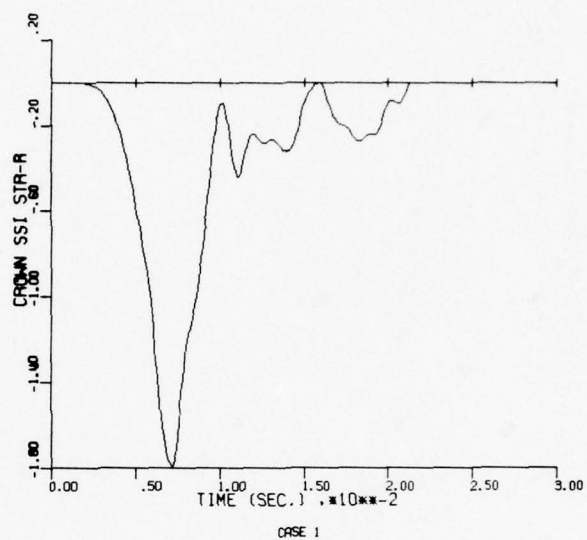
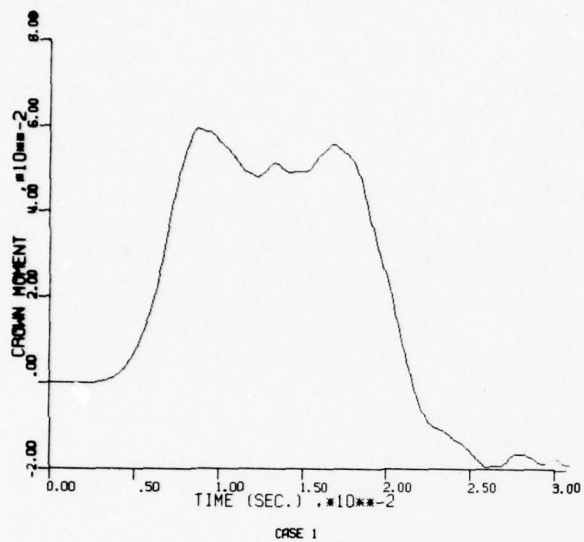
CASE 1



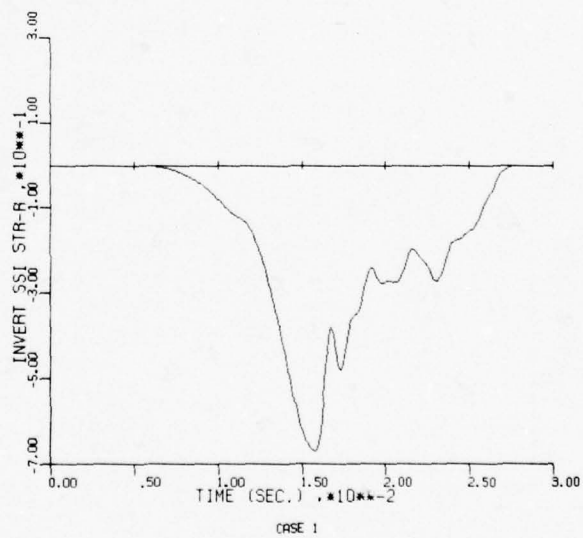
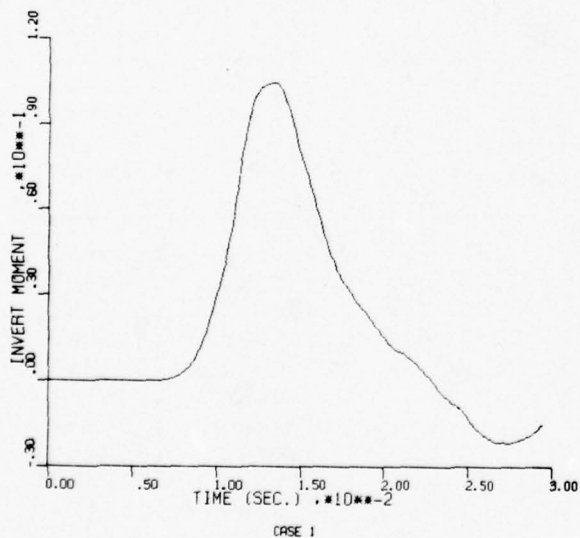
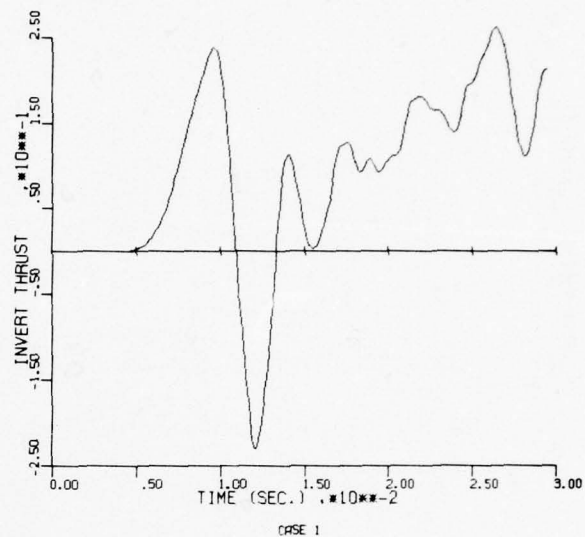
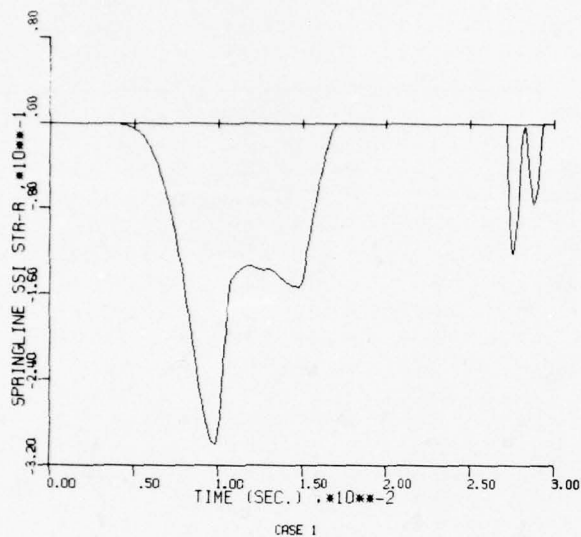
CASE 1



CASE 1







## CASE 2

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## MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.068249	-.0211243	-.093654	-2.572086	-.925736	-.021856
	2	-.067333	-.0190599	-.182246	-2.321811	-.766011	-.077931
	3	-.045538	-.0162515	-.269051	-1.950679	-.716736	-.065911
	4	-.041081	-.0126920	-.349362	-1.422971	-.495193	-.030732
	5	-.029670	-.0186079	-.341835	-.999486	-.439285	-.036221
	6	-.026882	-.0315685	-.363791	-1.048321	-.457488	-.013050
	7	-.018467	-.0456892	-.339184	-.730171	-.457183	-.025554
	8	-.018907	-.0567854	-.356006	-.752154	-.466754	-.009352
	9	-.030211	-.0654676	-.320978	-.432186	-.388746	-.046319
	10	-.032464	-.0730676	-.313112	-.497010	-.414536	-.107599
SPR	11	-.033198	-.0770347	-.222106	-.446241	-.432763	-.114433
	12	-.016794	-.0798637	-.253510	-.446742	-.423628	-.163387
	13	-.018037	-.0818030	-.221584	-.492274	-.403728	-.183670
	14	-.020827	-.0942378	-.112285	-.508647	-.327854	-.199795
	15	-.014368	-.0975144	-.055207	-.629447	-.208875	-.202444
	16	0.000000	-.0864822	-.059428	-.573125	-.201855	-.200479
	17	0.000000	-.0717100	-.062796	-.674456	-.218917	-.194002
	18	0.000000	-.0475760	-.049949	-.568426	-.192997	-.189531
	19	-.019594	-.0152510	-.076107	-.614428	-.305113	-.232988
	20	-.112062	-.0067990	-.107513	-.557944	-.204629	-.192734
INV	21	-.216797	-.0091764	-.130347	-.627674	-.344497	-.261407
	22	-.295947	-.0125189	-.149907	-.689049	-.286031	-.145527
	23	-.364228	-.0155637	-.145959	-.789671	-.304770	-.105284
INV	24	-.377889	-.0176778	-.052844	-.784716	-.272525	-.024837

## MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.759971	.0553028	.019879	0.000000	0.000000	.179211
	2	.743907	.0504783	.041779	0.000000	0.000000	.367270
	3	.822120	.0462544	.053741	0.000000	0.000000	.559611
	4	.847798	.0401789	.060109	0.000000	0.000000	.327783
	5	.926065	.0384706	.069421	0.000000	0.000000	.381689
	6	1.037185	.0269252	.087059	0.000000	0.000000	.301597
	7	1.061051	.0141983	.067568	0.000000	0.000000	.321126
	8	1.062515	.0104414	.121659	0.000000	0.000000	.231687
	9	1.035940	.0141526	.181498	0.000000	0.000000	.216577
	10	.963244	.0177327	.228527	0.000000	0.000000	.185440
SPR	11	.893267	.0184655	.281379	0.000000	0.000000	.199504
	12	.802922	.0187540	.308135	0.000000	0.000000	.048800
	13	.705585	.0175334	.328506	0.000000	0.000000	.066060
	14	.616658	.0150112	.324233	0.000000	0.000000	.021947
	15	.590936	.0133585	.309085	0.000000	0.000000	.048737
	16	.605956	.0208088	.312154	0.000000	0.000000	.030391
	17	.593260	.0282384	.304566	0.000000	0.000000	.058250
	18	.554113	.0359940	.375661	0.000000	0.000000	.079458
	19	.477747	.0418555	.462221	0.000000	0.000000	.101179
	20	.408156	.0473006	.456039	0.000000	0.000000	.068557
INV	21	.422500	.0547781	.369561	0.000000	0.000000	.112569
	22	.471831	.0790494	.318967	0.000000	0.000000	.055737
	23	.507988	.0961998	.240010	0.000000	0.000000	.039851
INV	24	.533441	.1105067	.101464	0.000000	0.000000	.033782

# LINER THRUST PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-15732E+00	-31987E+00	-13706E+00	-86992E-01	-50504E-01	-29487E-01
MAX	59362E+00	47667E+00	65275E-01	10756E+00	66373E-01	36856E-01	21870E-01

### LINER MOMENT PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.33149E-02	-.26592E-03	-.17885E-01	-.34108E-01	-.24099E-01	-.12416E-01	-.66049E-02
MAX	.21512E-05	.84572E-03	.74021E-01	.34015E-01	.14766E-01	.61595E-02	.58191E-02

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.72481E-02	-.25656E+00	-.17962E+00	-.11008E+00	-.63952E-01	-.43401E-01
MAX	0.	.15148E-01	.59902E-01	.16465E+00	.15710E+00	.10177E+00	.65769E-01

# EXPERIMENTAL INVESTIGATION OF THE EFFECTS OF PLASMA TREATMENT ON THE ADHESION OF A DENTURE RESIN TO A POLYMER SUBSTRATE

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.43140E+00	-.66978E+00	-.57420E+00	-.45415E+00	-.33272E+00	-.22894E+00	-.15376E+00
MAX	0.	.17214E+00	.49741E-01	.25092E+00	.31641E+00	.22284E+00	.14074E+00

ESSI SHEAR STR. PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.53916E-01	-.22392E-01	-.25800E-01	-.57016E-01	-.60676E-01	-.38507E-01
MAX	0.	.56438E-01	.17393E+00	.12611E+00	.10196E+00	.80093E-01	.55904E-01

CASE 2

CROWN THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6  
SRSS .007269 .010198 .002191 .001522 .000288 .000967 .000075  
MIN. 0.000000 .019942 .065897 .935253 .940426 1.041211 1.025038  
MAX. .781111 1.317486 1.195843 1.018963 .949496 .938351 .949007  
INPUT  
VARIABLE  
.10274E-01  
-.68249E-01  
.75997E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6  
SRSS .023045 .022929 .001533 .000447 .000057 .000323 .000606  
MIN. .156924 .133847 .850921 .976270 .973169 .954594 .980896  
MAX. .000039 .012355 1.298771 1.257364 1.103788 1.007614 .991309  
INPUT  
VARIABLE  
.16829E-02  
-.21124E-01  
.55303E-01

CROWN SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6  
SRSS .005627 .002619 .000691 .000968 .002187 .000368 .001358  
MIN. .167722 .398232 .618891 .791293 .911638 .983261 1.021685  
MAX. 0.000000 .050591 0.000000 .005966 .039034 .000501 .042298  
INPUT  
VARIABLE  
.27350E-01  
-.25721E+01  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6  
SRSS .004183 .004065 .000863 .000945 .000169 .000093 .000734  
MIN. 0.000000 0.000000 1.350103 1.005046 1.131423 1.143565 1.147940  
MAX. .739327 .765364 .991174 1.020532 .978108 .991003 .984742  
INPUT  
VARIABLE  
.16694E-01  
-.16794E-01  
.80292E+00



SPRINGLINE MOMENT

```

*****
MODE 0  MODLS 0-1  MODLS 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS    .020699    .020705    .003058    .002733    .002318    .002243    .001476    VARIABLE
MIN.    .041507    .041107    .940439    .858406    1.002819    .992362    .959783    -0.79864E-01
MAX.    .000115    .000174    .935528    .963320    .966794    .981007    .999574    .18754E-01

```

SPRINGLINE SSI STR-R

```

*****
MODE 0  MODLS 0-1  MODLS 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS    .028586    .027584    .037379    .037099    .021074    .025480    .034249    VARIABLE
MIN.    .965647    1.007206    .926291    .942643    .762418    .820733    .922326    .53794E-02
MAX.    0.000000    0.000000    .174383    .262983    .052514    .031879    .016520    -.44674E+00

```

INVERT THRUST

```

*****
MODE 0  MODLS 0-1  MODLS 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS    .016728    .013174    .003460    .004271    .002075    .000551    .000713    VARIABLE
MIN.    0.000000    .174869    .960052    1.011871    .993848    1.044611    1.022740    .84678E-02
MAX.    1.112817    .916627    .684394    .912443    1.015199    .971499    1.001953    -.37789E+00

```

INVERT MOMENT

```

*****
MODE 0  MODLS 0-1  MODLS 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS    .016368    .016461    .000693    .000894    .001298    .001084    .000339    VARIABLE
MIN.    .187519    .215096    1.010015    .877362    .900732    .928325    .939441    .20991E-02
MAX.    .000019    0.000000    .646936    .949157    .999030    .948149    .948669    -.17678E-01

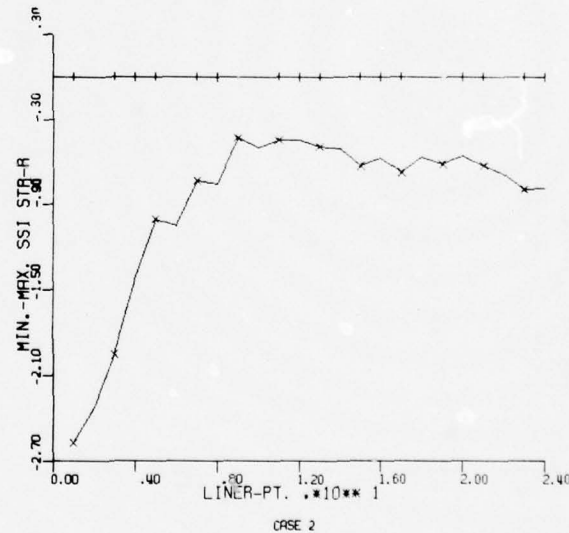
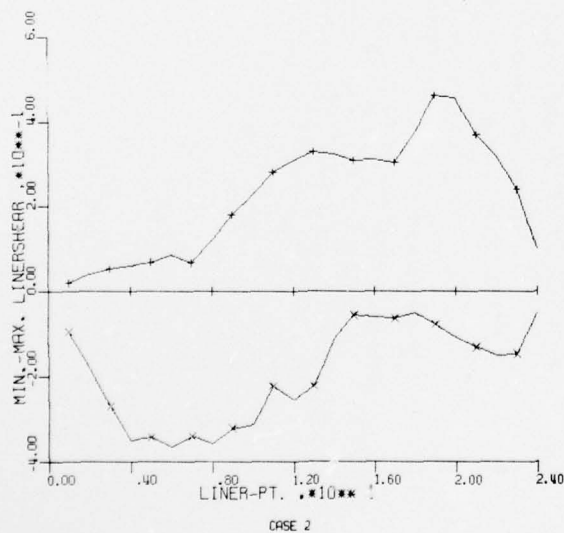
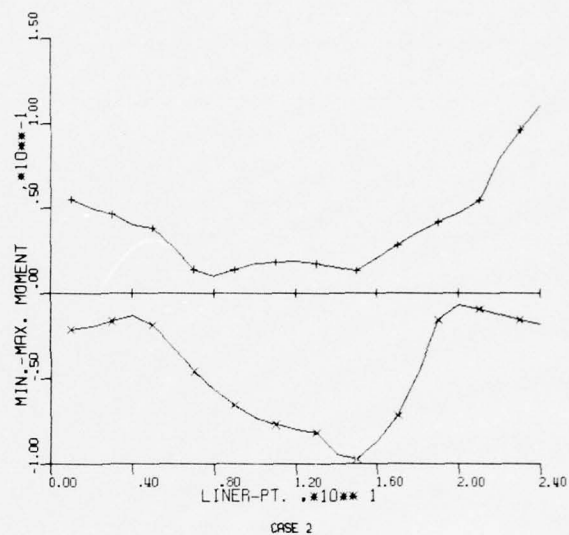
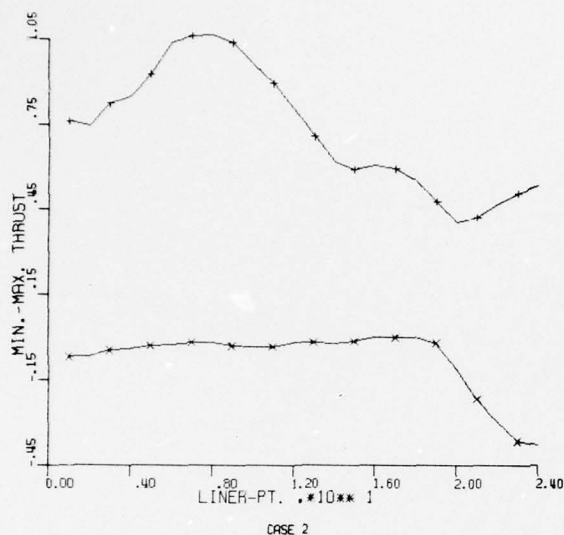
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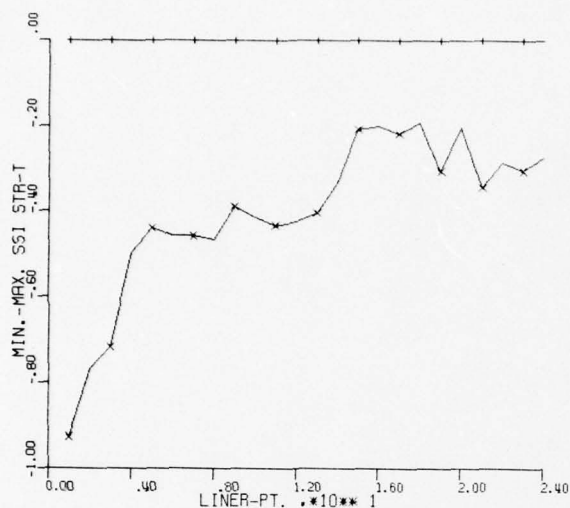
INVERT SSI STR-R

```

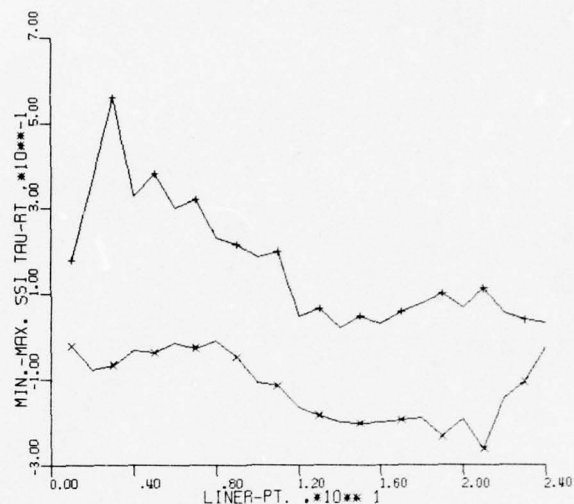
*****
MODE 0  MODLS 0-1  MODLS 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS    .010393    .015950    .012368    .011877    .006051    .001332    .001856    VARIABLE
MIN.    .549747    .544804    .783216    1.084433    1.075477    1.053491    1.029505    .14796E-01
MAX.    0.000000    .313788    0.000000    .191040    .088659    .086793    .051663    -.78472E+00

```

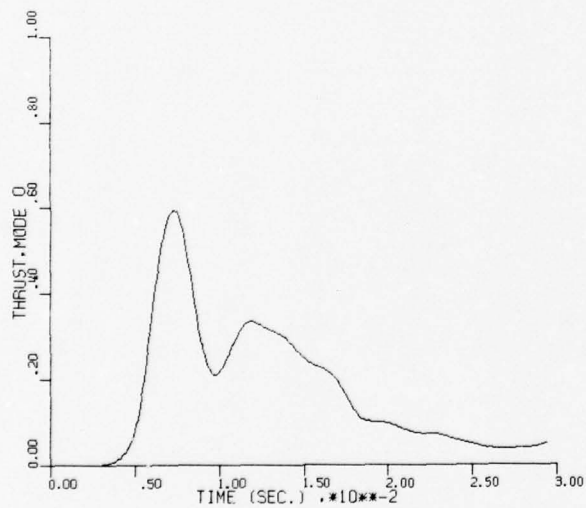




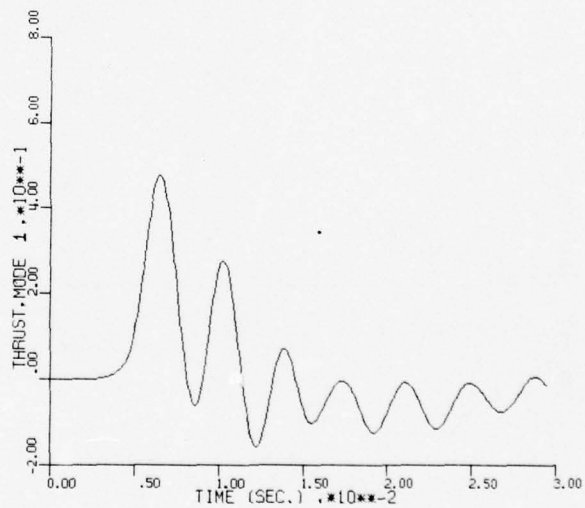
CASE 2



CASE 2

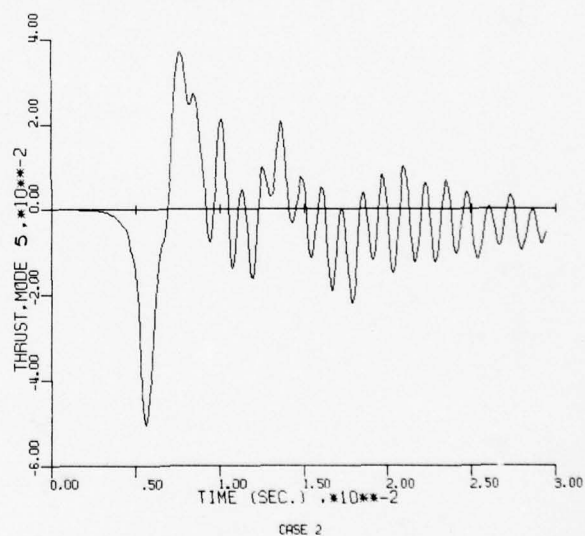
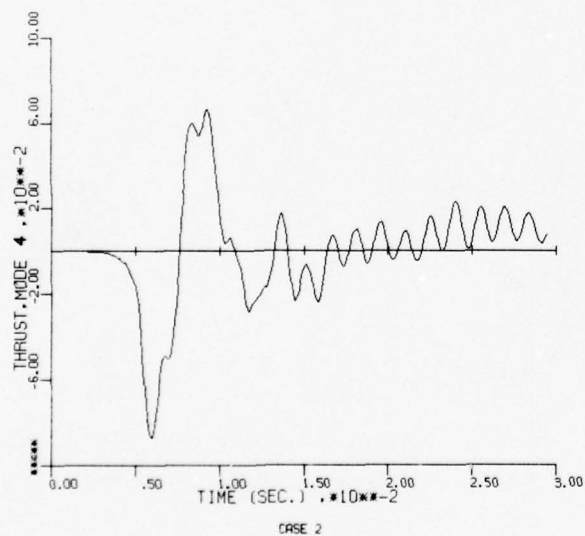
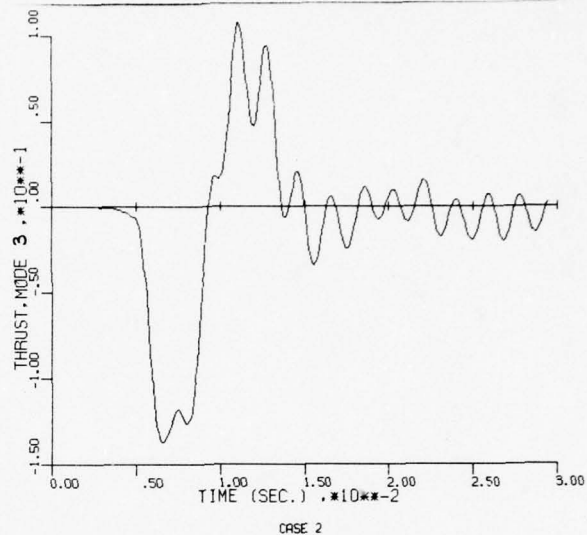
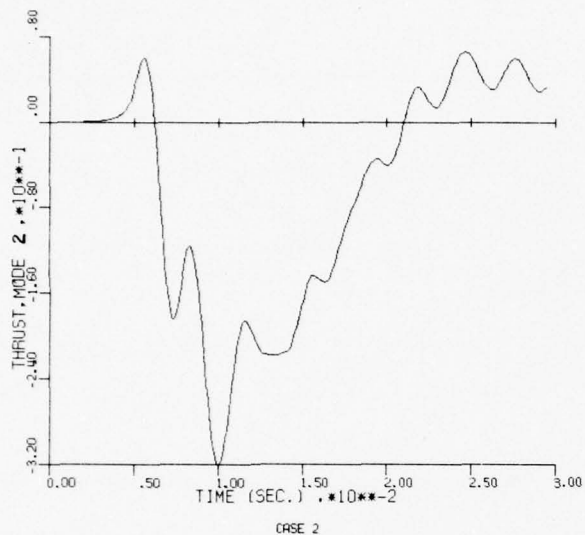


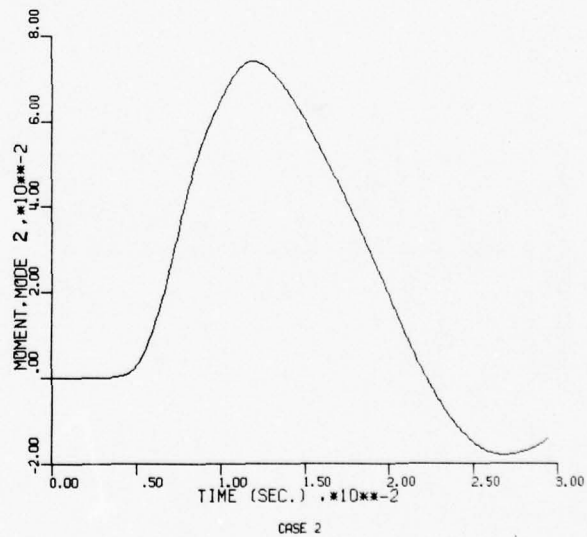
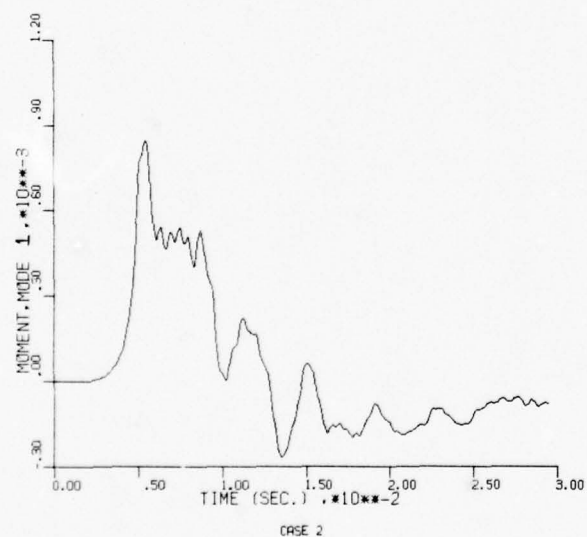
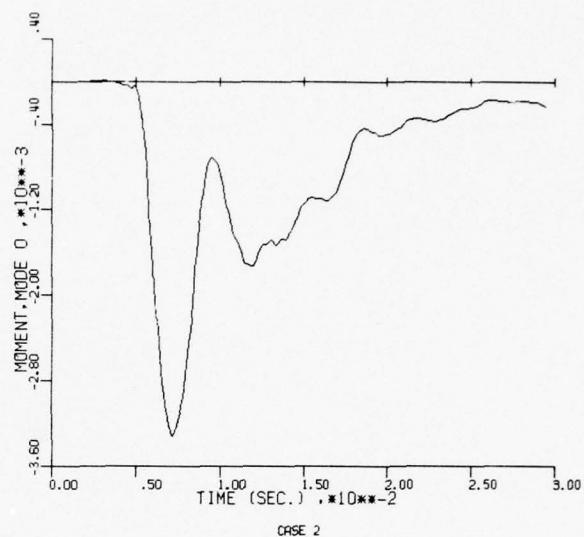
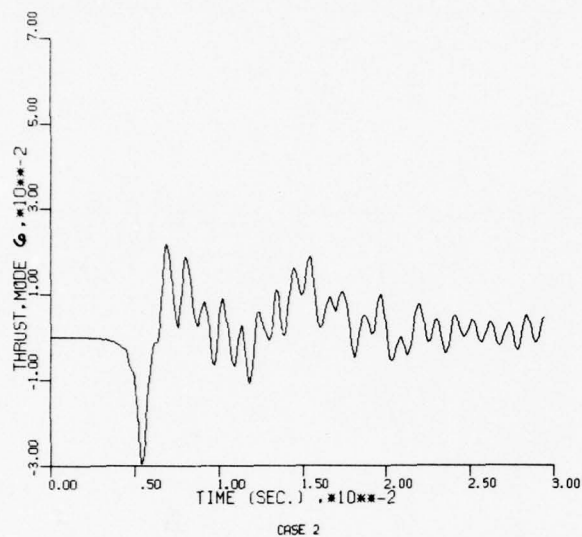
CASE 2

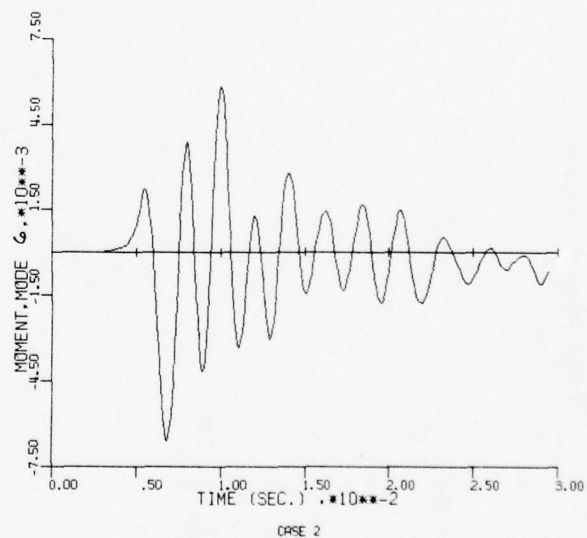
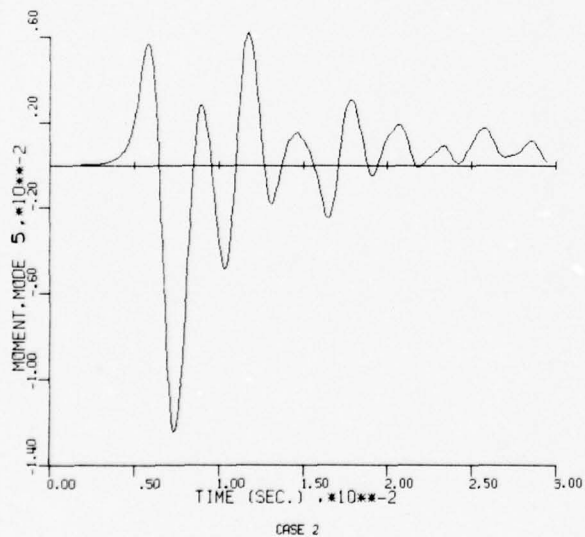
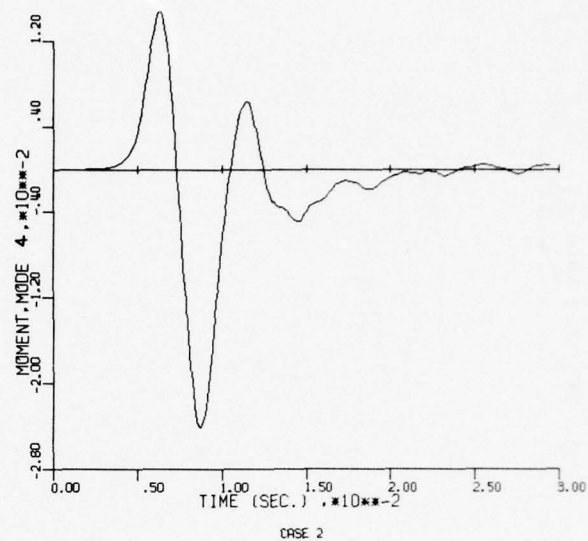
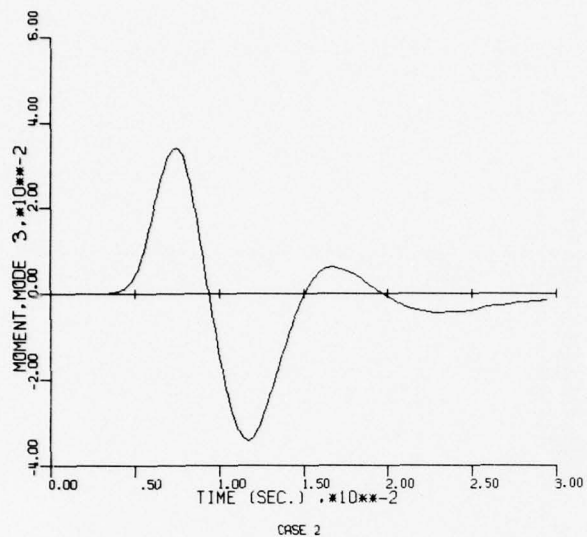


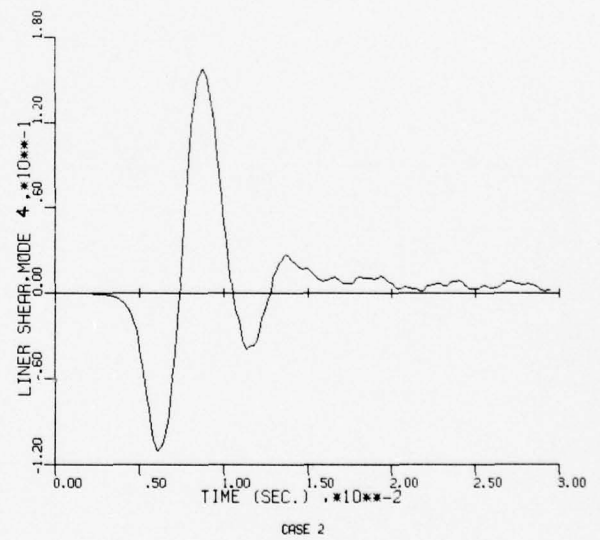
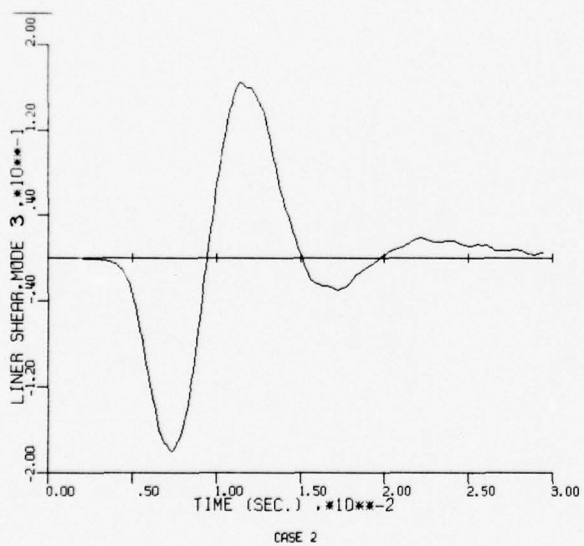
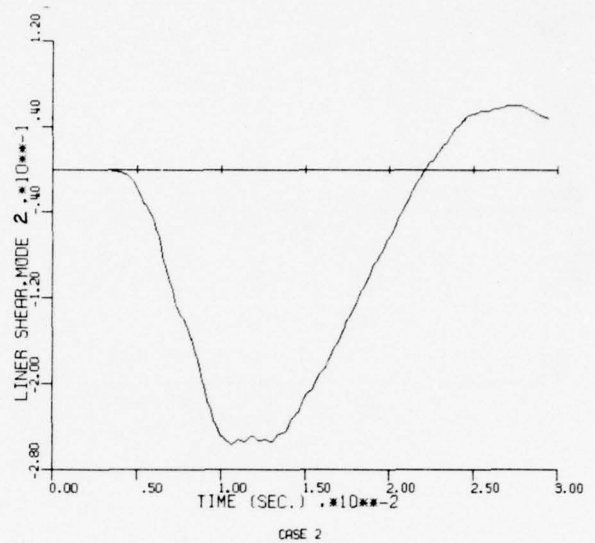
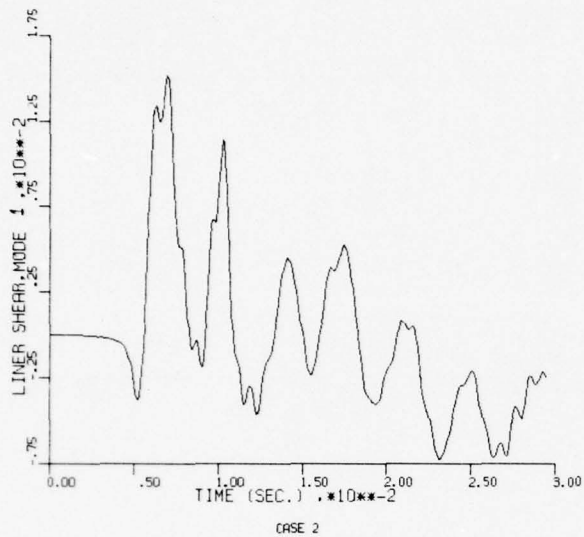
CASE 2



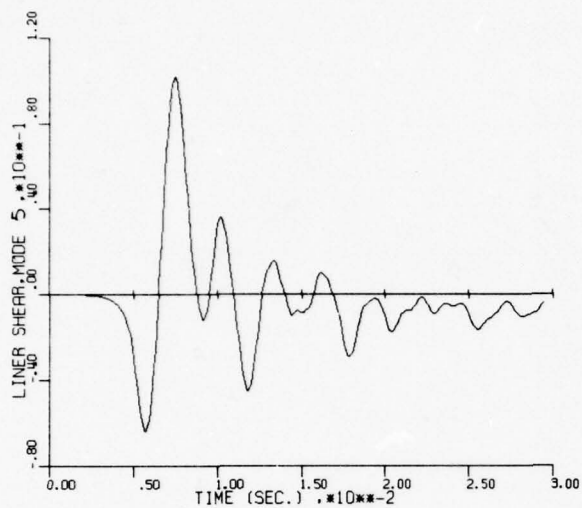




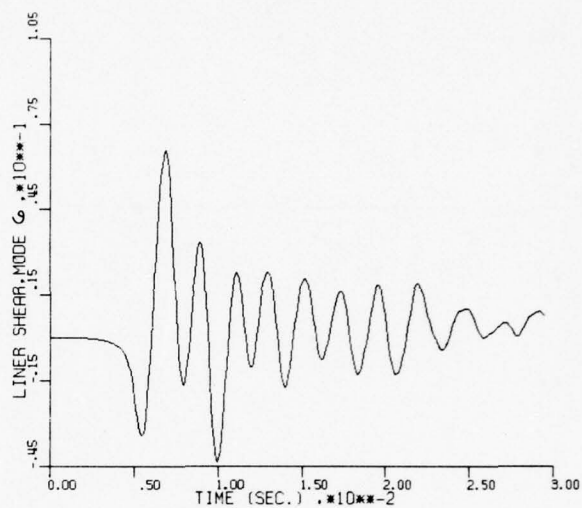




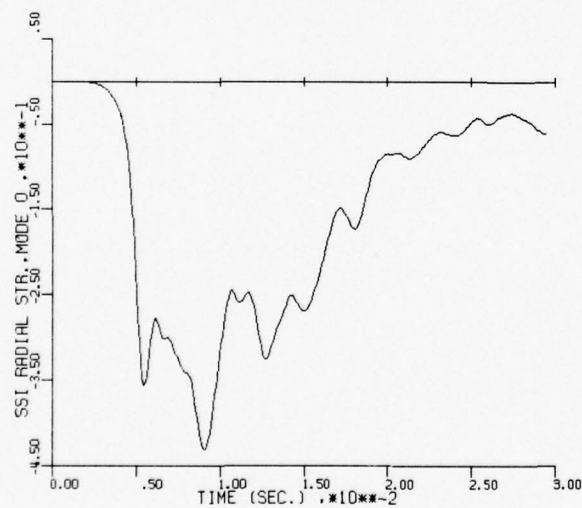




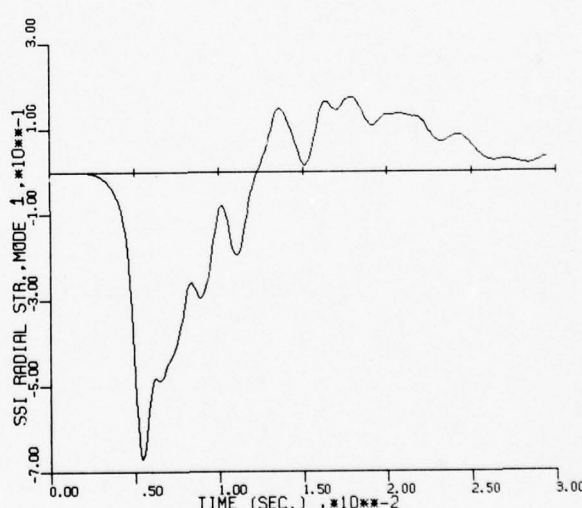
CASE 2



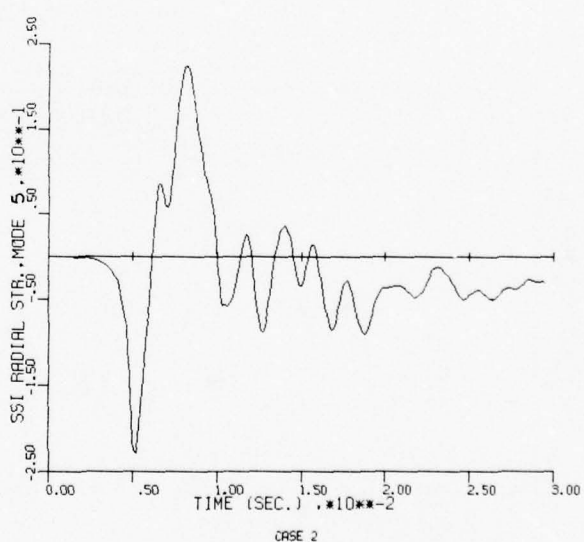
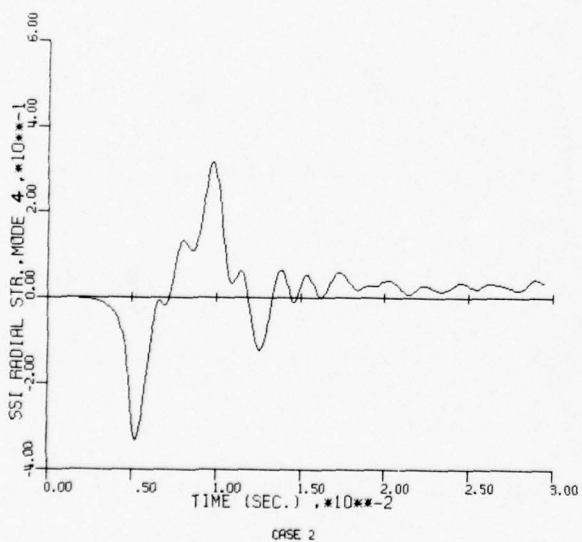
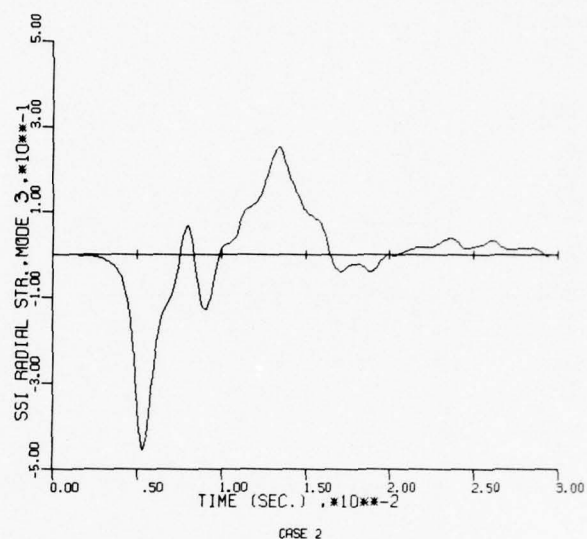
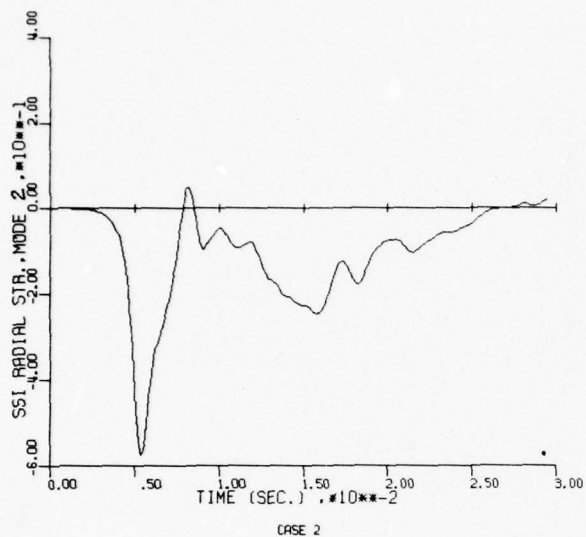
CASE 2

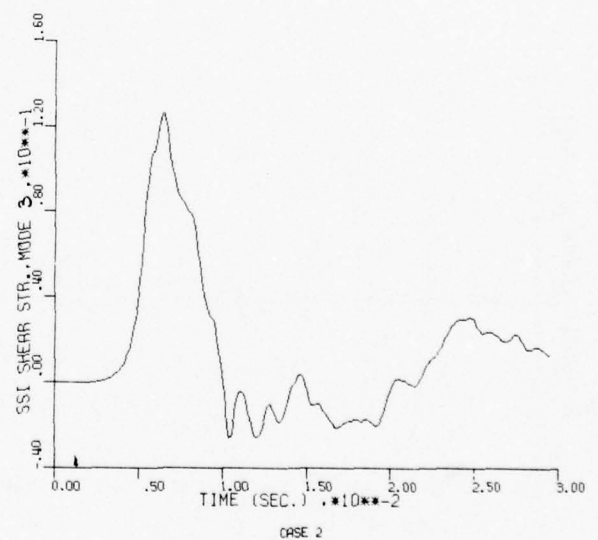
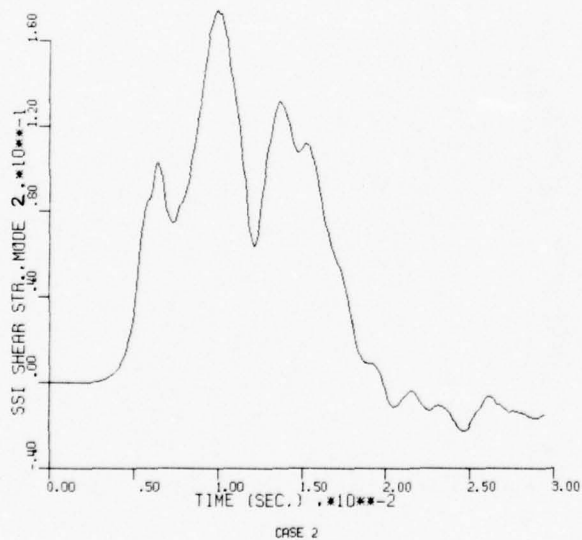
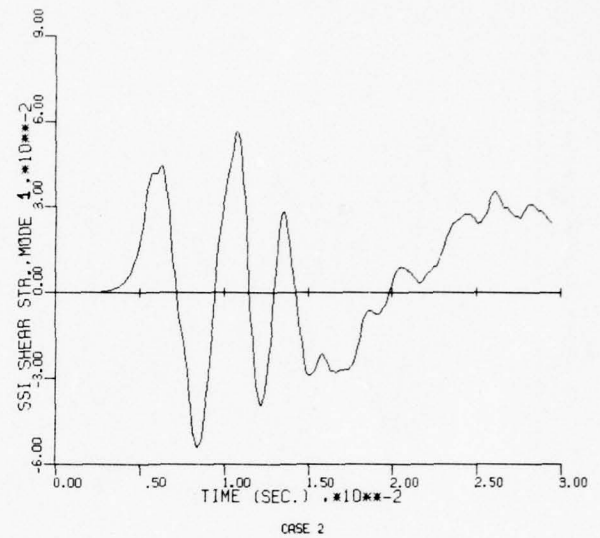
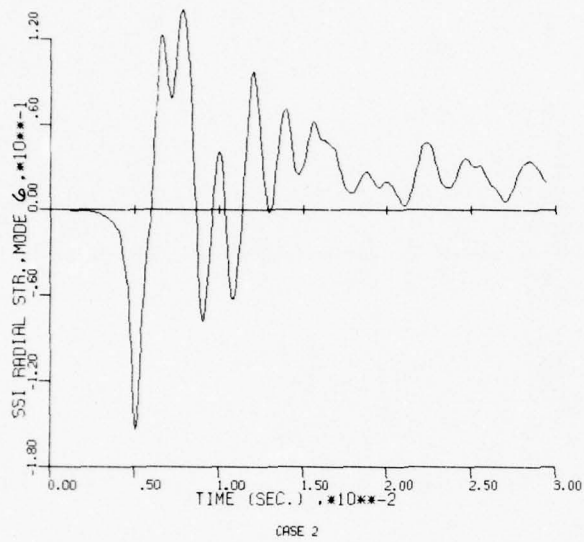


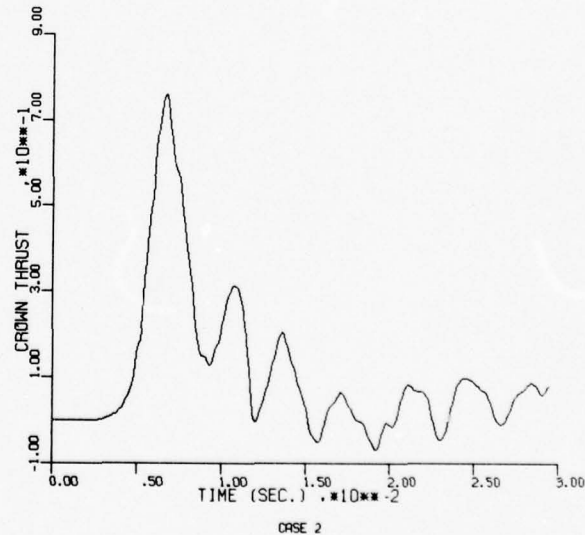
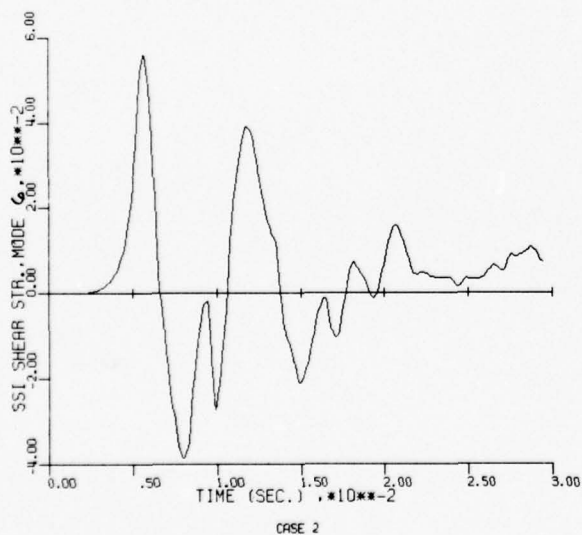
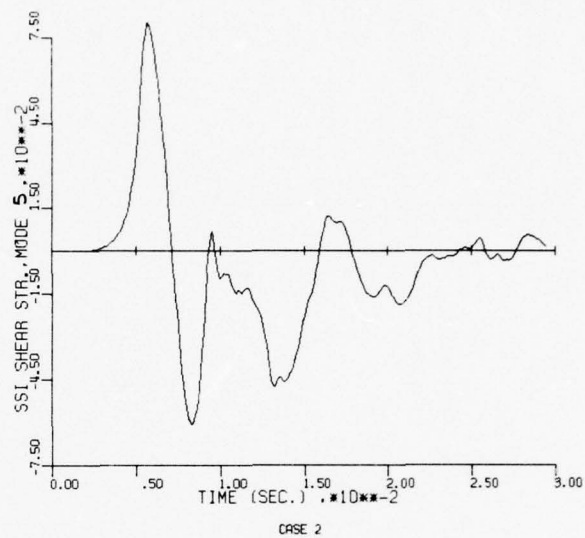
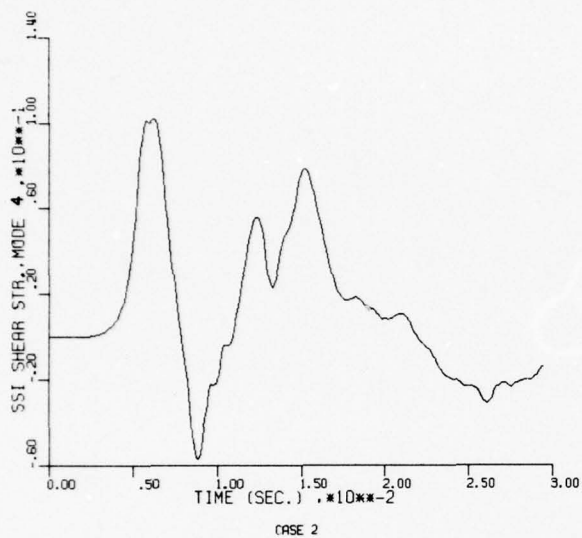
CASE 2



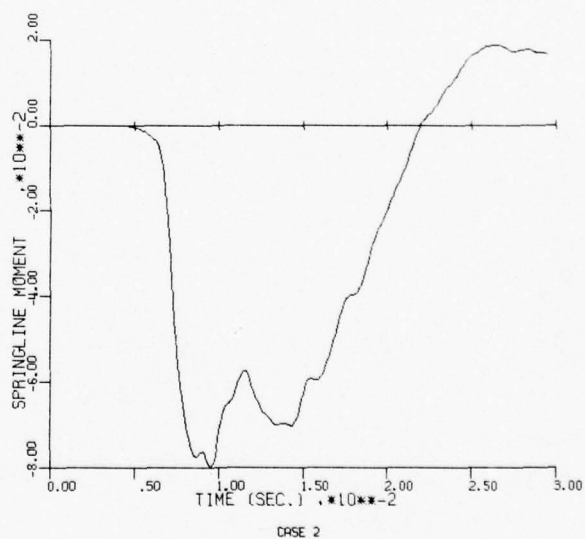
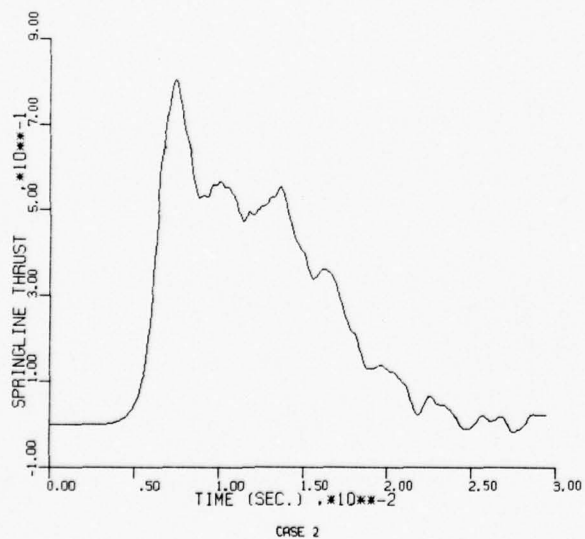
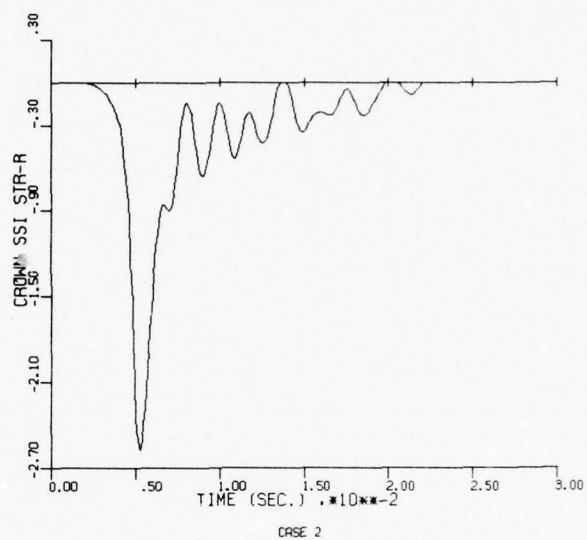
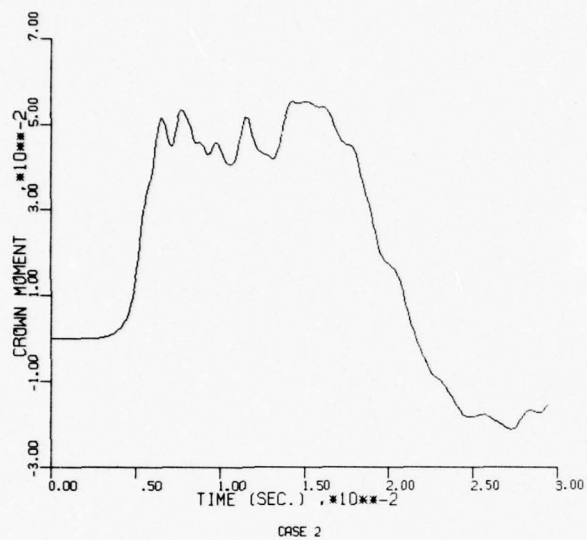
CASE 2

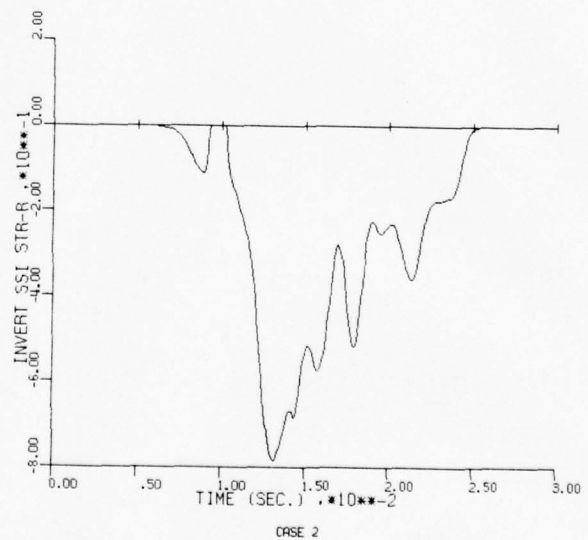
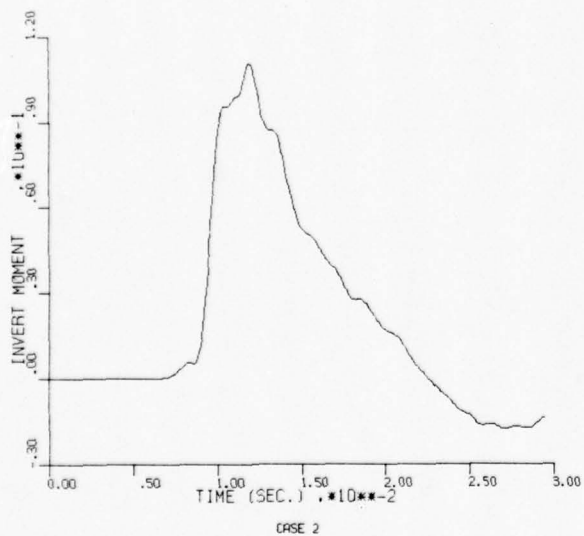
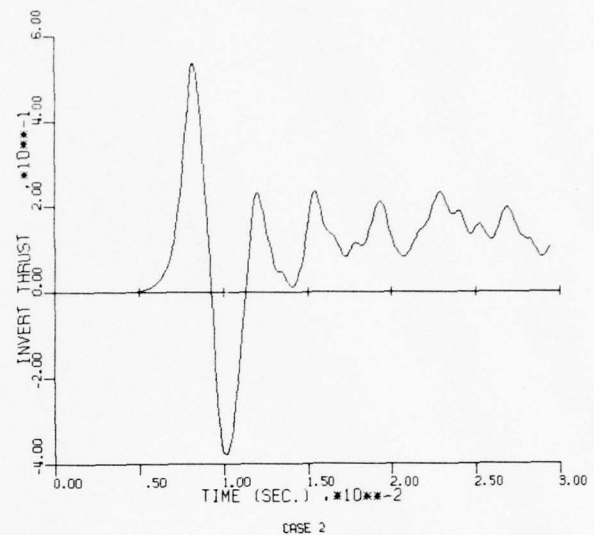
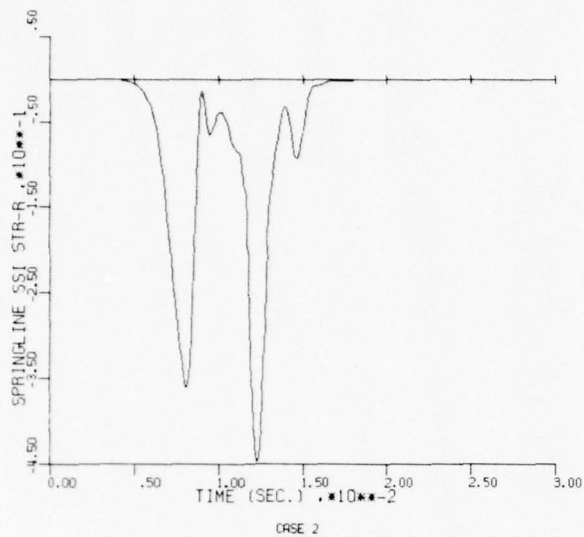












CASE 3

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MIN.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.004554	0.0000000	-.063951	-1.957591	-.668746	-.011512
	2	-.002548	0.0000000	-.148116	-1.844831	-.608243	-.037706
	3	0.000000	0.0000000	-.251950	-1.656270	-.626085	-.015725
	4	0.000000	-.0000422	-.324299	-1.504691	-.498151	-.002719
	5	0.000000	-.0069505	-.355605	-1.304604	-.541594	-.080703
	6	0.000000	-.0219846	-.407792	-1.159446	-.456802	-.051347
	7	0.000000	-.0399552	-.396247	-.866542	-.457553	-.032391
	8	0.000000	-.0560146	-.414609	-.821427	-.407860	-.009050
	9	0.000000	-.0705277	-.371815	-.703383	-.419155	-.028765
	10	0.000000	-.0834619	-.344126	-.568524	-.472284	-.103369
SPR	11	0.000000	-.0928803	-.271777	-.476021	-.443158	-.145566
	12	0.000000	-.1080587	-.242056	-.348726	-.395911	-.181186
	13	0.000000	-.1201741	-.141975	-.404059	-.408689	-.207848
	14	0.000000	-.1274462	-.000000	-.454099	-.483946	-.218370
	15	0.000000	-.1204110	-.000000	-.516993	-.391523	-.223876
	16	0.000000	-.0995580	-.000000	-.565344	-.387478	-.219729
	17	0.000000	-.0734319	0.000000	-.594478	-.447261	-.318346
	18	0.000000	-.0397211	-.000463	-.687460	-.381281	-.316468
	19	0.000000	-.0035355	-.002932	-.862461	-.496610	-.407735
	20	0.000000	-.0000000	-.010082	-.802073	-.299774	-.302991
INV	21	0.000000	-.0000000	-.015516	-.932389	-.357919	-.309712
	22	-.067717	-.0000001	-.017488	-.859717	-.317994	-.259306
	23	-.138492	-.0000000	-.013431	-.941491	-.338252	-.245254
	24	-.172163	-.0000000	-.004869	-.981176	-.345284	-.051772

MAX.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.672011	.0798407	.006389	0.000000	0.000000	.098461
	2	.695505	.0755582	.014156	0.000000	0.000000	.327914
	3	.771168	.0689126	0.000000	0.000000	0.000000	.420668
	4	.817016	.0581965	0.000000	0.000000	0.000000	.452539
	5	.899356	.0514664	0.000000	0.000000	0.000000	.448984
	6	.984335	.0353697	.000000	0.000000	0.000000	.372832
	7	1.025478	.0154056	.002274	0.000000	0.000000	.385552
	8	1.053727	.0000000	.012994	0.000000	0.000000	.278719
	9	1.042607	.0000000	.057889	0.000000	0.000000	.275158
	10	.994505	.0000000	.113411	0.000000	0.000000	.128566
SPR	11	.990269	.0000000	.174910	0.000000	0.000000	.127392
	12	.998640	.0000000	.219066	0.000000	0.000000	.060898
	13	.967930	.0000866	.260384	0.000000	0.000000	.113379
	14	.938627	.0004866	.294107	0.000000	0.000000	.073474
	15	.911598	.0019106	.305339	0.000000	0.000000	.282020
	16	.865736	.0007901	.349582	0.000000	0.000000	.170241
	17	.749546	.0121502	.419048	0.000000	0.000000	.199662
	18	.719225	.0205229	.489282	0.000000	0.000000	.165494
	19	.642860	.0290167	.506064	0.000000	0.000000	.160545
	20	.624482	.0409831	.493653	0.000000	0.000000	.136559
INV	21	.563849	.0698800	.410690	0.000000	0.000000	.115625
	22	.547248	.0970857	.326843	0.000000	0.000000	.091790
	23	.519354	.1170566	.210747	0.000000	0.000000	.065533
	24	.519508	.1280737	.075526	0.000000	0.000000	.035374

MIN-MAX MODAL AMPLITUDES -- CASE 3

LINER THRUST PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.16393E+00	-.39675E+00	-.14691E+00	-.54359E-01	-.20694E-01
MAX	.61855E+00	.39440E+00	.10229E-01	.34363E-01	.40243E-01	.26187E-01
						MODE 6
						-.76559E-02
						.20767E-01
LINER MOMENT PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.31746E-02	-.31956E-03	0.	-.33504E-01	-.16587E-01	-.69169E-02
MAX	.18671E-05	.74642E-03	.10573E+00	.33274E-01	.79392E-02	.30253E-02
						MODE 6
						-.29798E-02
						.14104E-02
LINER SHEAR PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.16200E-01	-.38968E+00	-.18808E+00	-.69624E-01	-.24291E-01
MAX	0.	.10949E-01	0.	.14721E+00	.11021E+00	.60618E-01
						MODE 6
						-.93446E-02
						.32693E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.57951E+00	-.61330E+00	-.44280E+00	-.31865E+00	-.19867E+00	-.10049E+00
MAX	0.	.17408E+00	0.	.25119E+00	.28030E+00	.21996E+00
						MODE 6
						-.46318E-01
						.15015E+00
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.63501E-01	-.47844E-01	-.45486E-01	-.30940E-01	-.63119E-01
MAX	0.	.10621E+00	.33004E+00	.14963E+00	.11471E+00	.48417E-01
						MODE 6
						-.48205E-01
						.24544E-01



CASE 3

CROWN THRUST

MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
.016811	.003321	.000176	.000949	.000262	.000068	.000098	.000098	.95537E-02
0.000000	0.000000	1.295108	2.590232	.560984	.885954	.834946	.834946	-.45543E-02
.920441	1.436769	1.261226	1.060002	.990371	.975754	.985384	.985384	.67201E+00

CROWN MOMENT

MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
.023403	.023528	.0001945	.000310	.001298	.000218	.000374	.000374	.16526E-02
-.003175	-.003257	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.
.000023	.000682	1.278821	1.094087	1.002712	1.011228	1.004353	1.004353	.79841E-01

CROWN SSI STR-R

MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
.004829	.001862	.000854	.001564	.001190	.000592	.002489	.002489	.20855E-01
.296033	.535714	.724839	.882101	.975692	1.015150	1.025574	1.025574	-.19576E+01
0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	.001467	.001467	0.

SPRINGLINE THRUST

MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
.001582	.001959	.000467	.000402	.000115	.000086	.000074	.000074	.22396E-01
0.000000	0.000000	-.000000	-.000001	-.000003	-.000012	-.000000	-.000000	0.
.619388	.639549	1.001254	.997962	.990165	.993274	.988457	.988457	.99864E+00

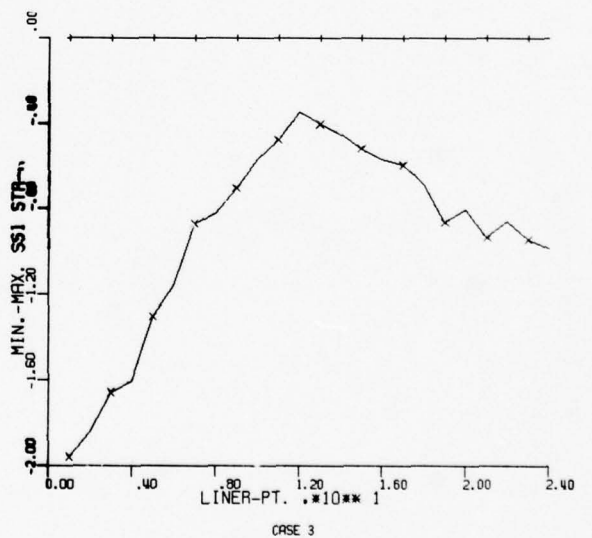
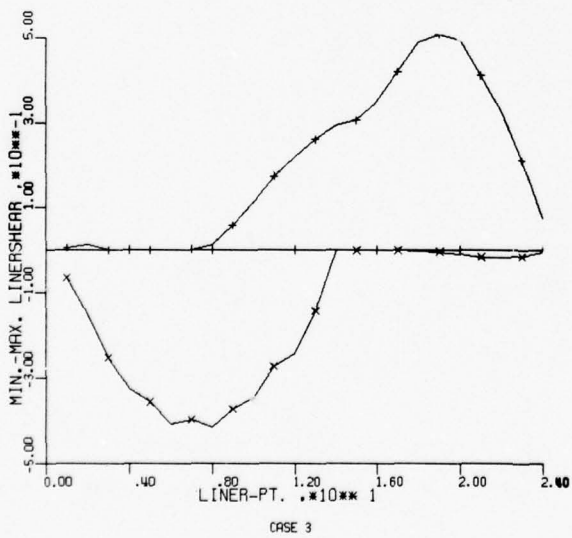
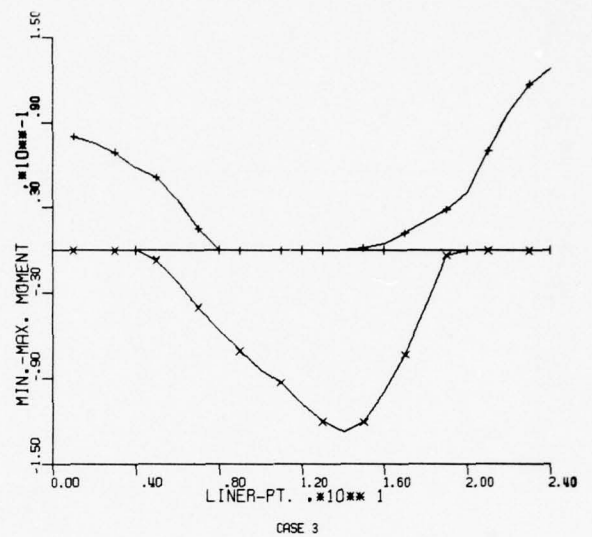
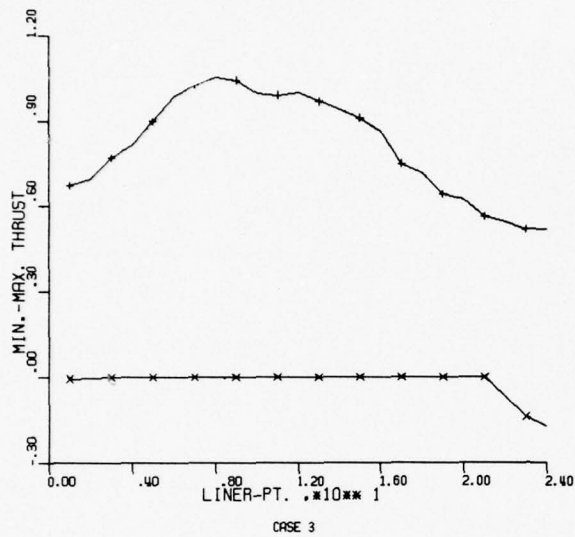
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .018811 .001456 .000800 .000097 .000358 .000063  
MIN. .029378 .997809 .946349 1.013568 1.019668 1.019512  
MAX. .000002 .000003 0.000000 0.000000 .000021 .000004  
INPUT  
VARIABLE \*\*\*\*\*  
.23223E-02  
-.10806E+00  
.27749E-17

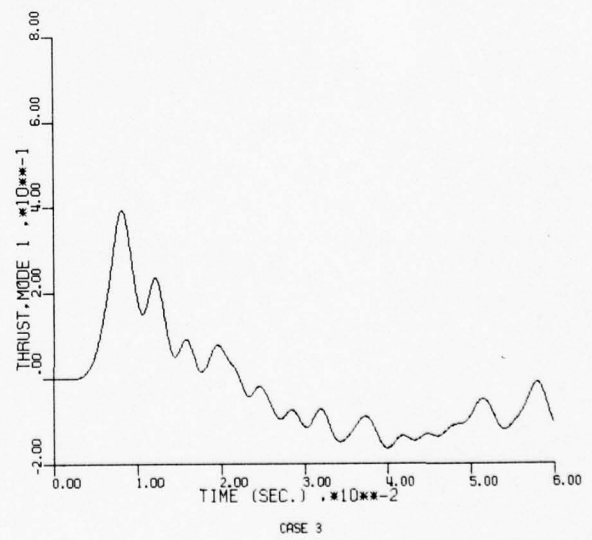
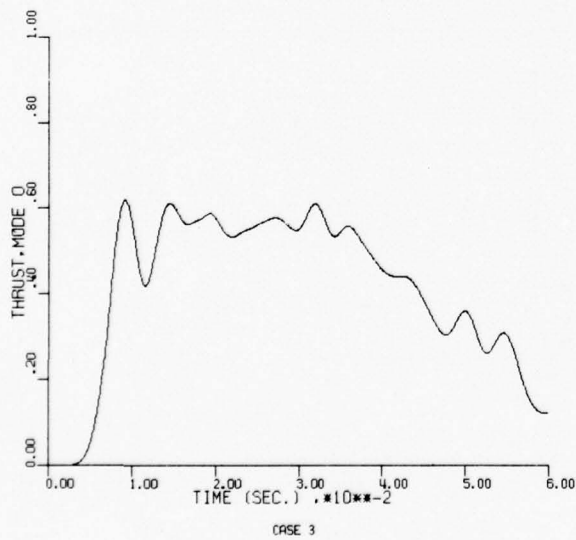
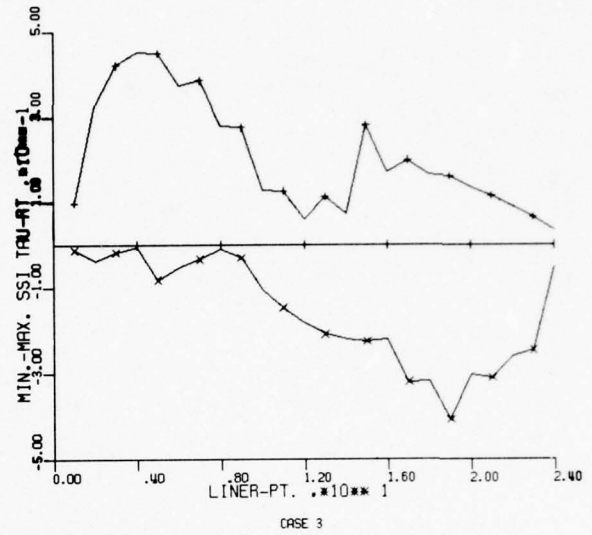
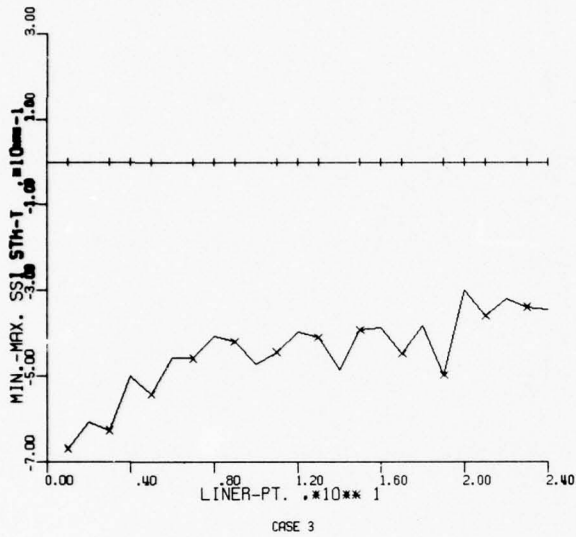
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .035941 .008768 .003630 .005458 .008412 .000854  
MIN. 1.661793 1.678397 1.277336 1.247602 .850231 .995697  
MAX. 0.000000 0.000000 .062272 .040814 .048366 .021969  
INPUT  
VARIABLE \*\*\*\*\*  
.42703E-02  
-.34873E+00  
0.

INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .010014 .001243 .001676 .001031 .000021 .000167  
MIN. 0.000000 .062336 .911385 .976905 .922783 .977295  
MAX. 1.190639 1.322949 .995318 .990120 .997526 .997527  
INPUT  
VARIABLE \*\*\*\*\*  
.11448E-01  
-.17216E+00  
.51951E+00

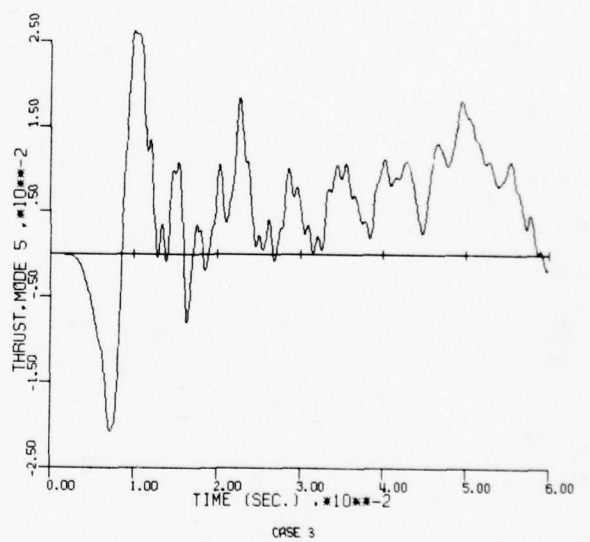
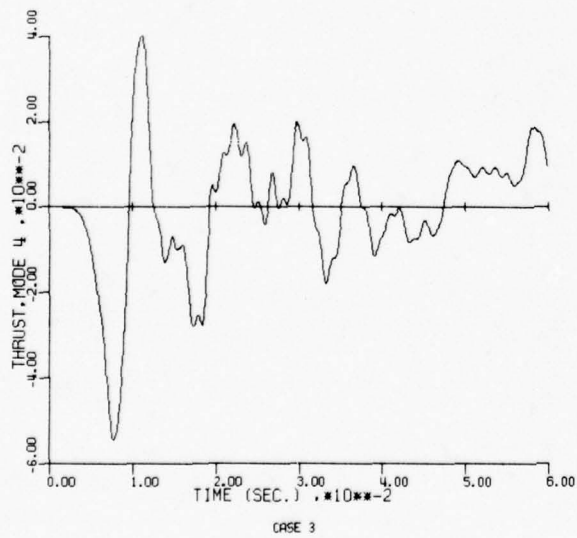
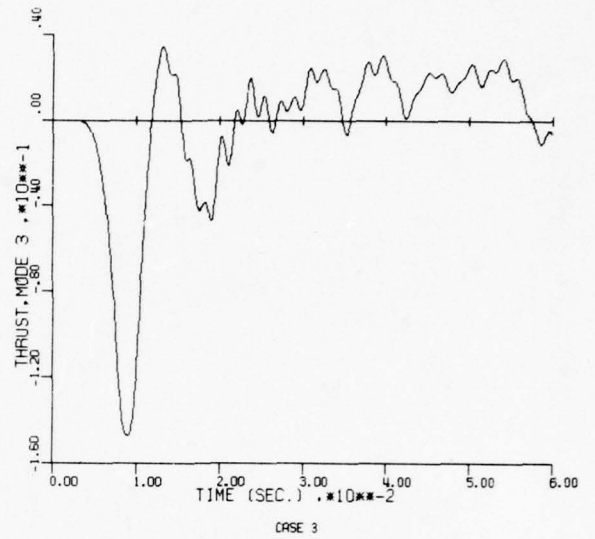
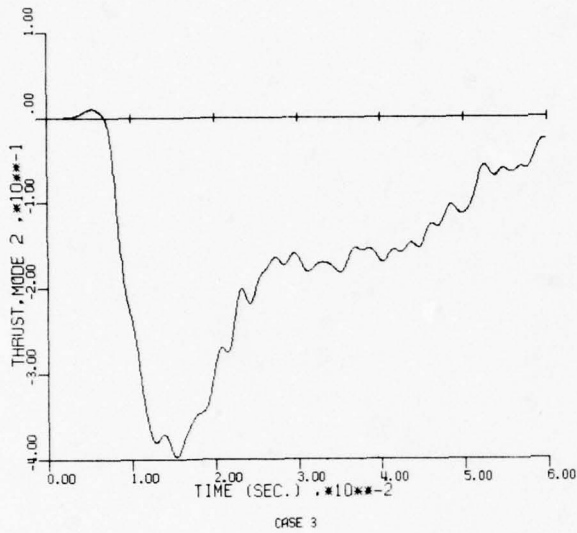
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .027302 .004516 .000822 .000035 .000826 .000354  
MIN. -.003175 -.003884 0.000000 -.005079 0.000000 0.000000  
MAX. .000015 0.000000 .792512 1.041880 1.010317 .985414  
INPUT  
VARIABLE \*\*\*\*\*  
.20741E-02  
-.15605E-07  
.12807E+00

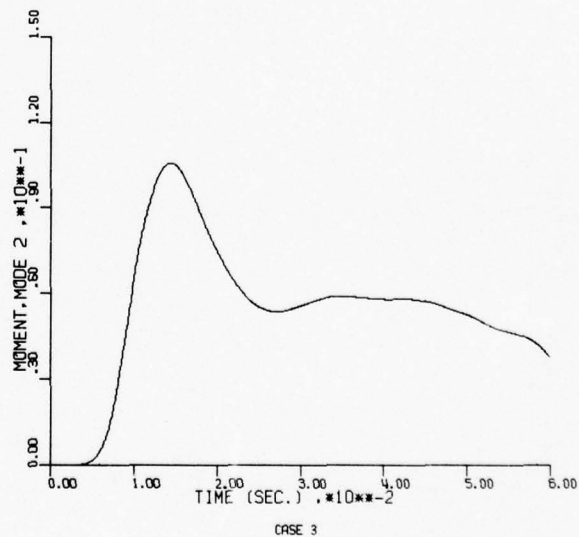
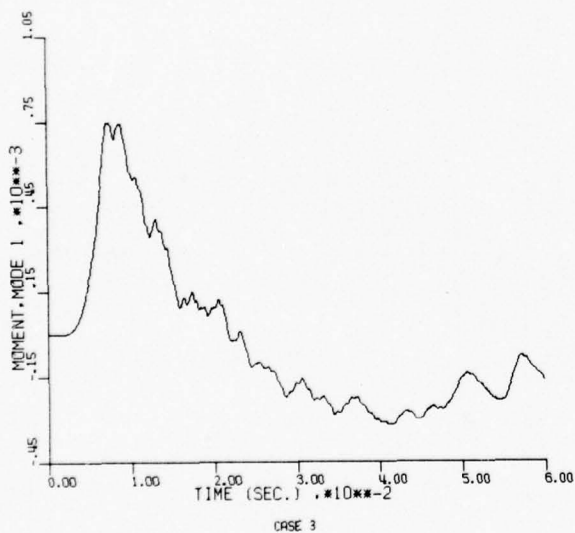
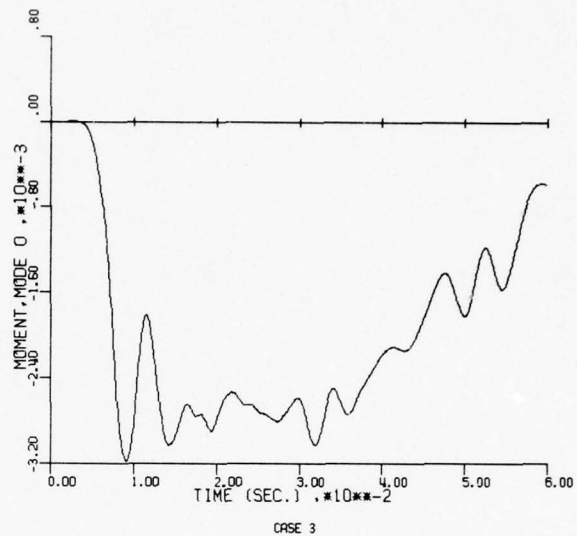
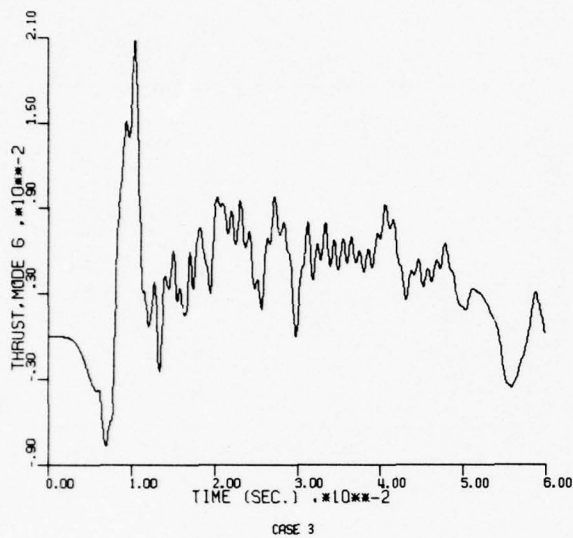
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .016395 .002291 .002552 .002209 .003841 .002104  
MIN. .590630 .704122 .905766 1.031745 .988805 .946855  
MAX. 0.000000 .213524 0.000000 .118825 .019797 .007155  
INPUT  
VARIABLE \*\*\*\*\*  
.22781E-01  
-.98118E+00  
0.

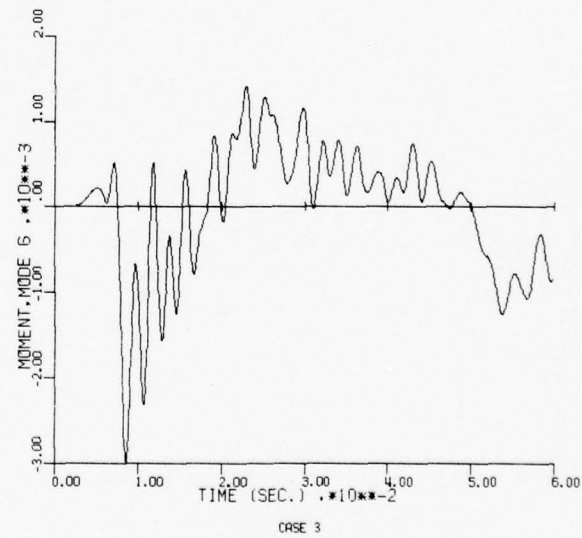
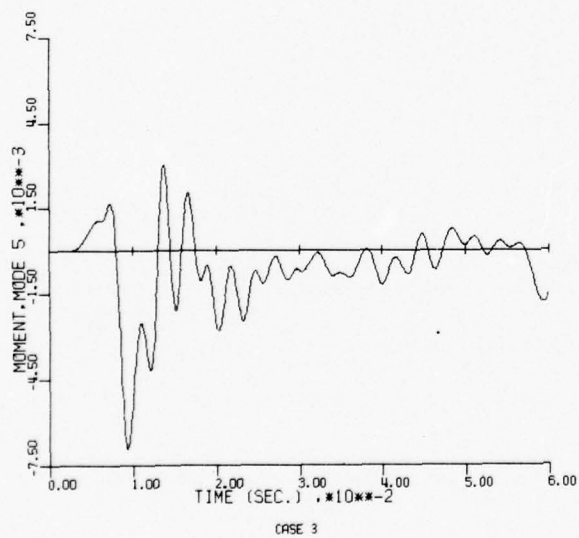
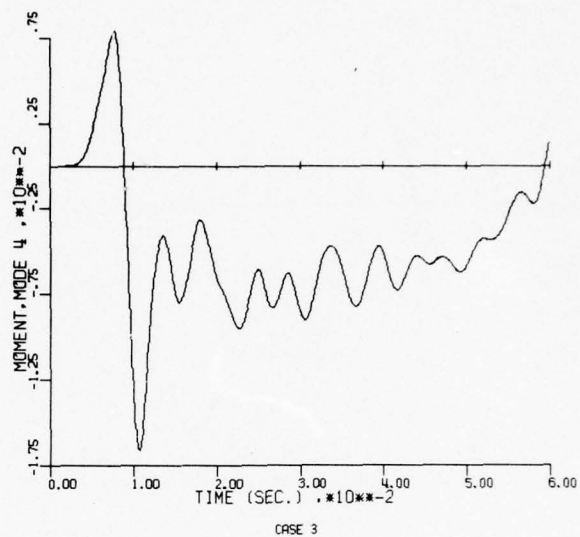
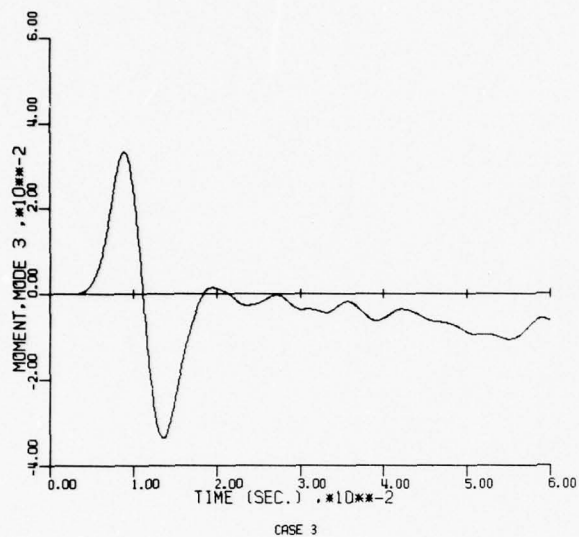


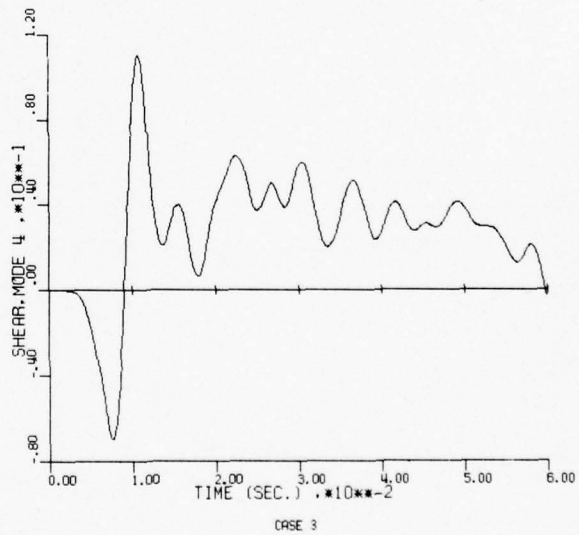
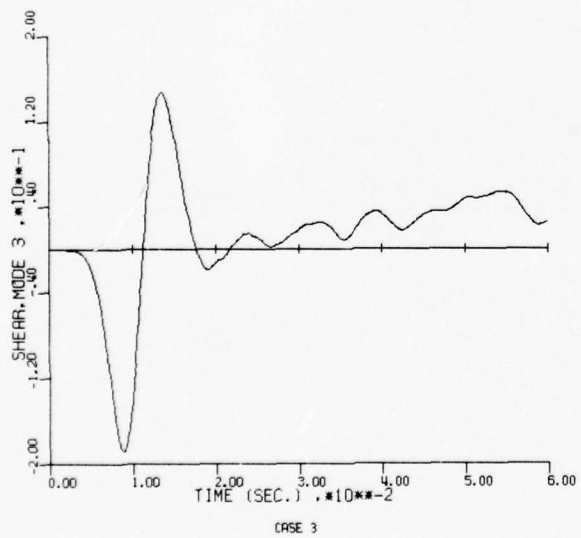
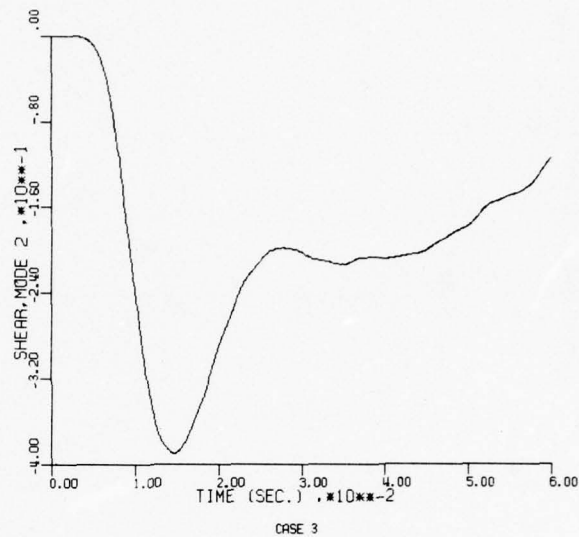
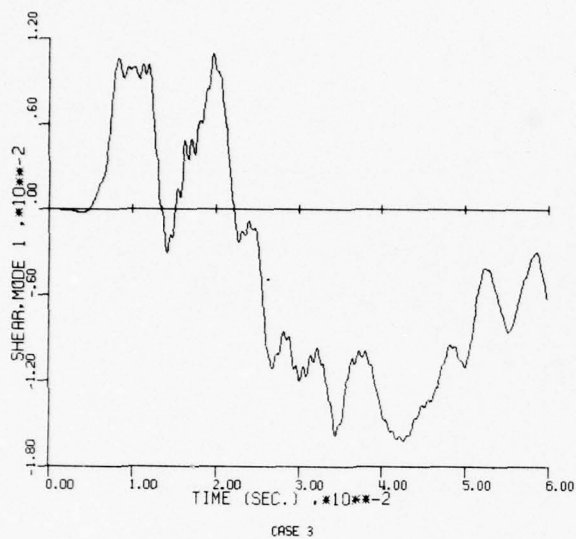




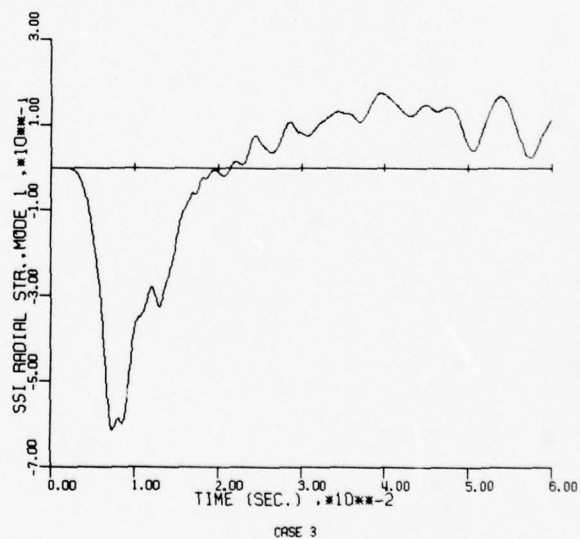
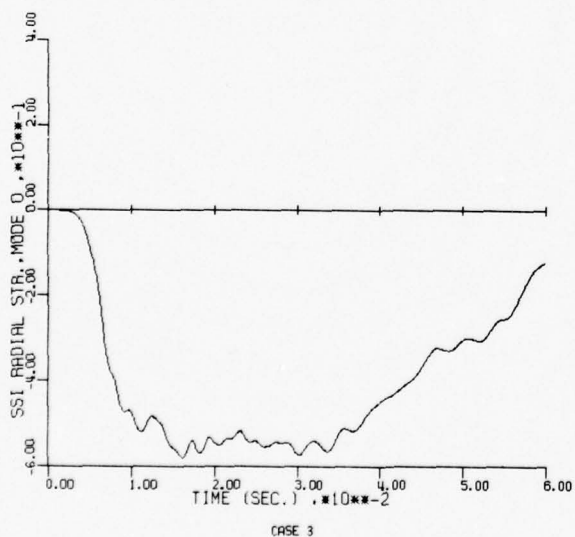
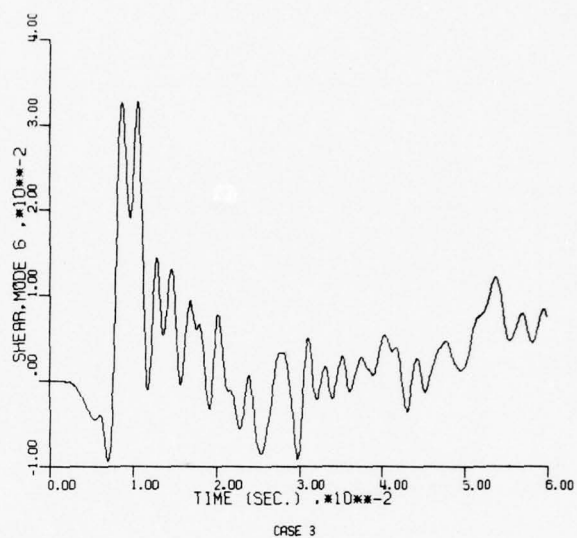
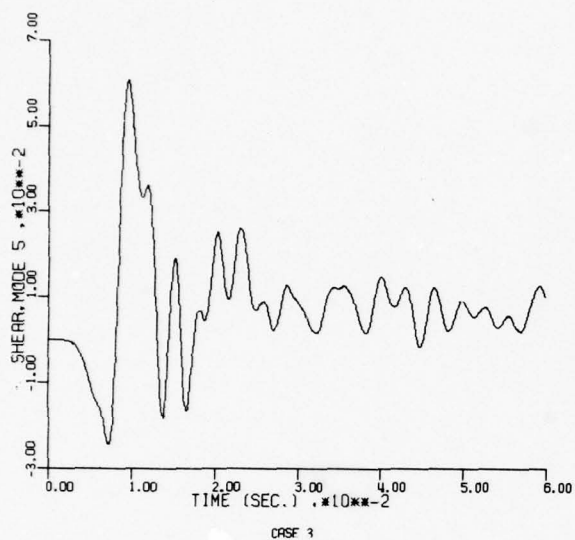


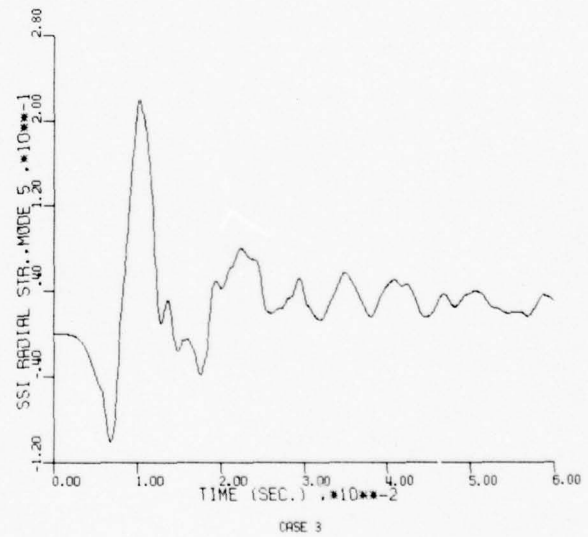
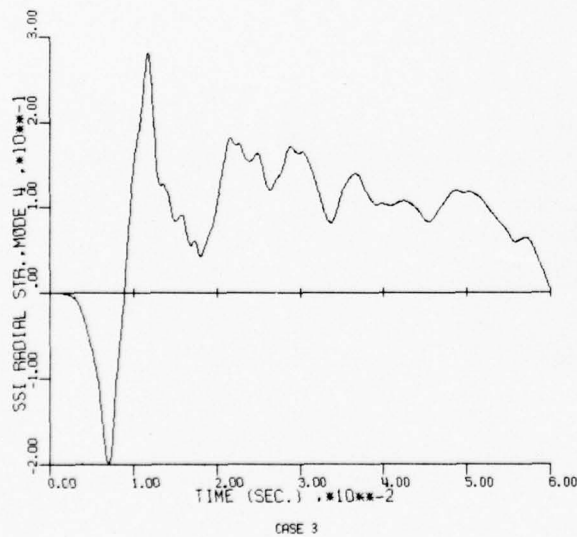
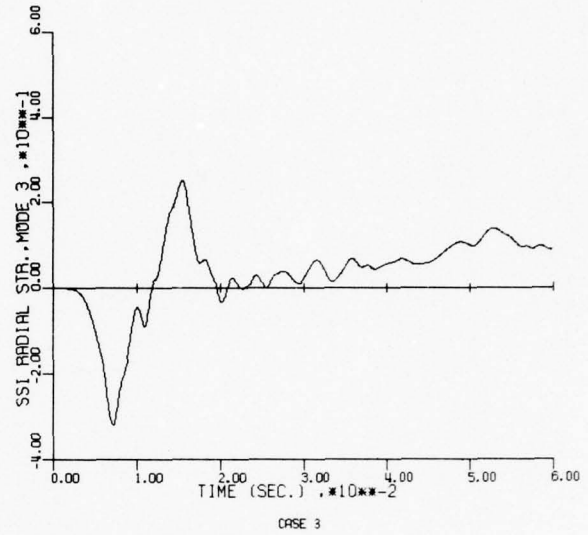
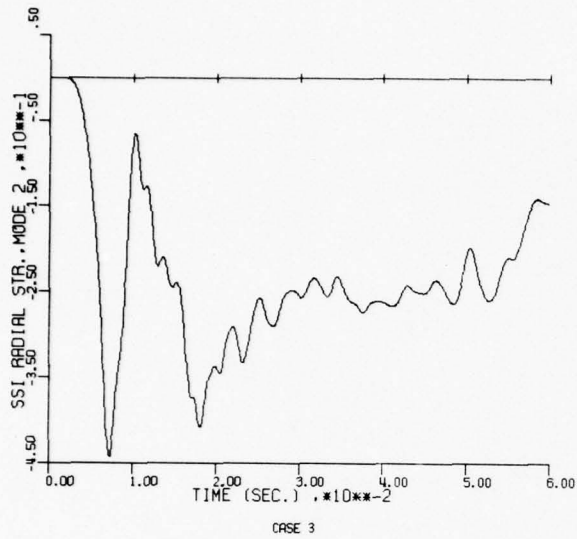


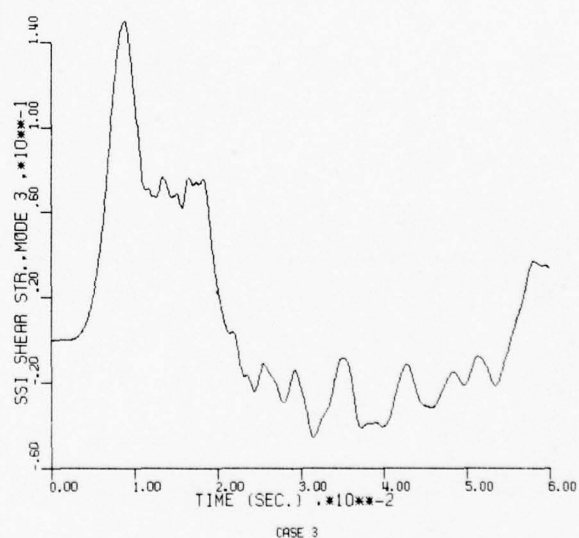
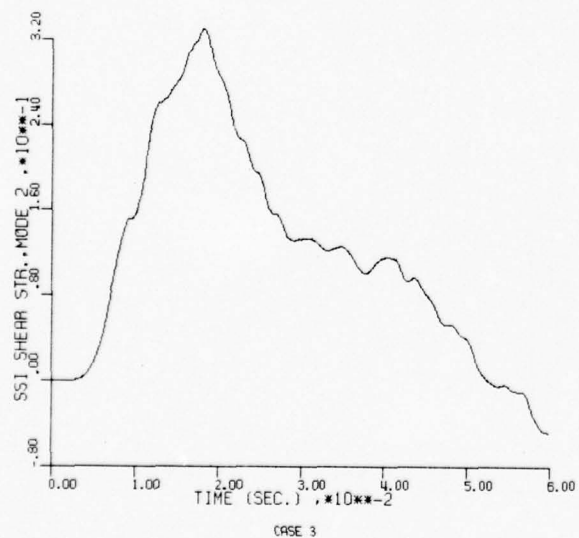
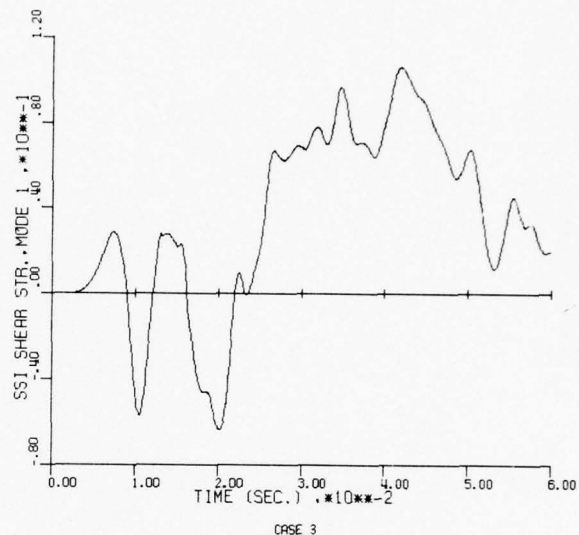
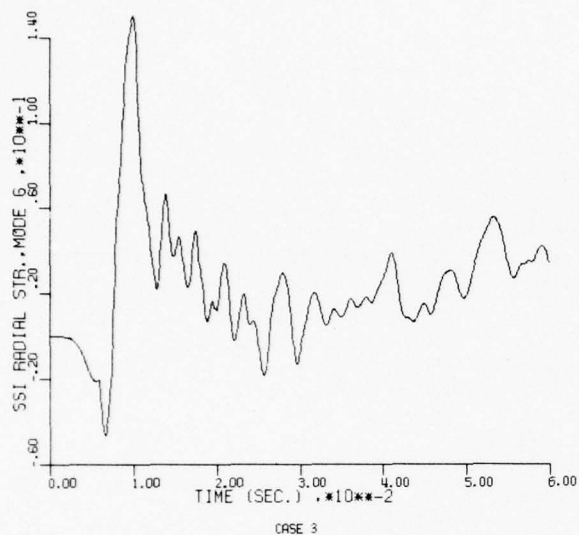


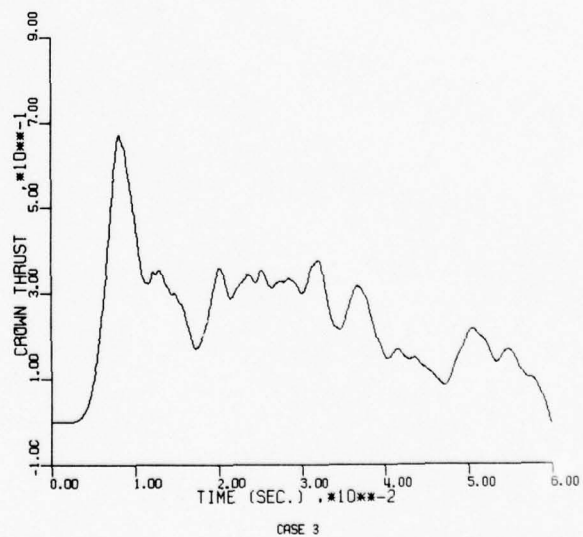
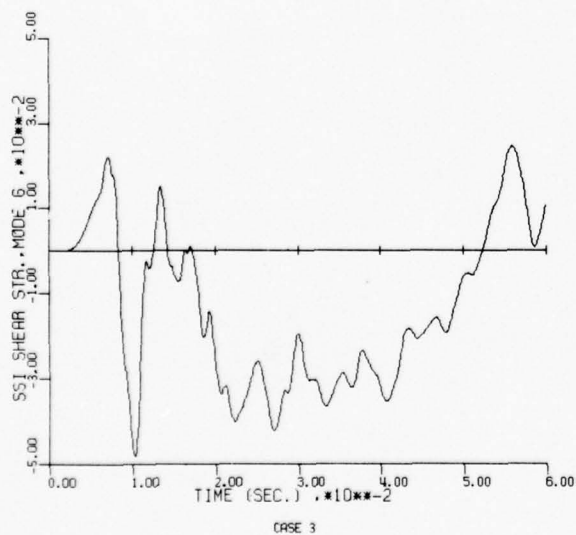
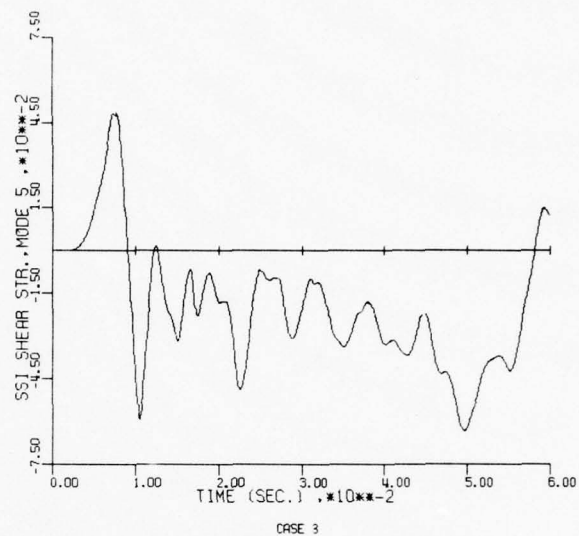
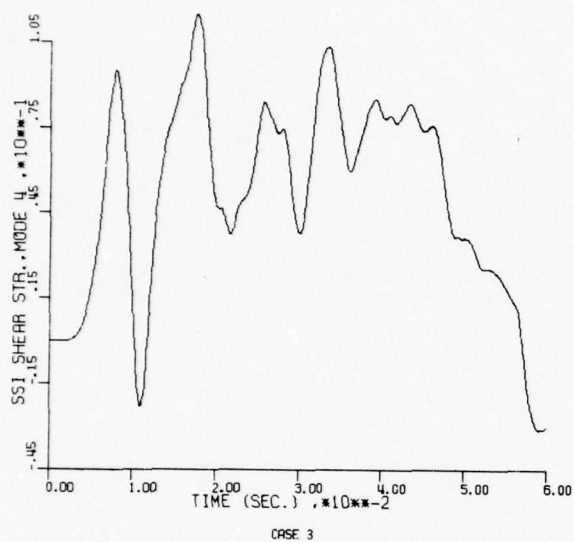




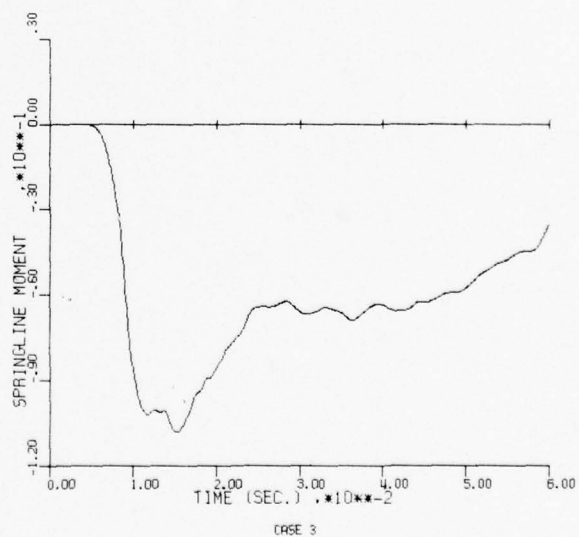
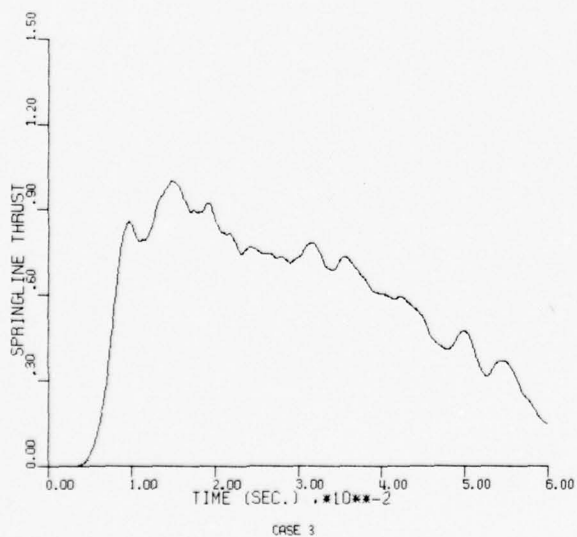
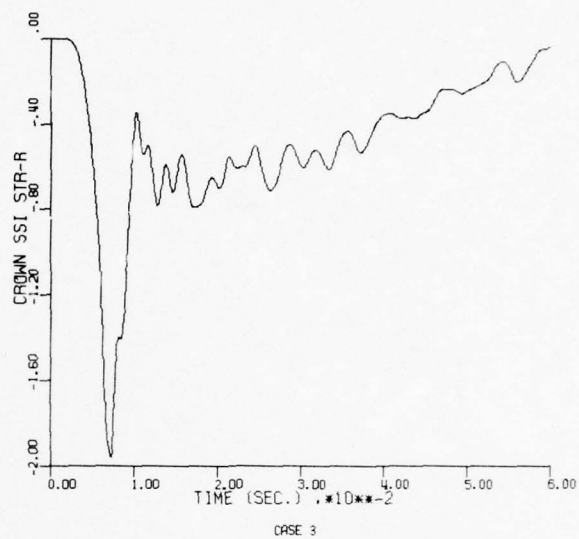
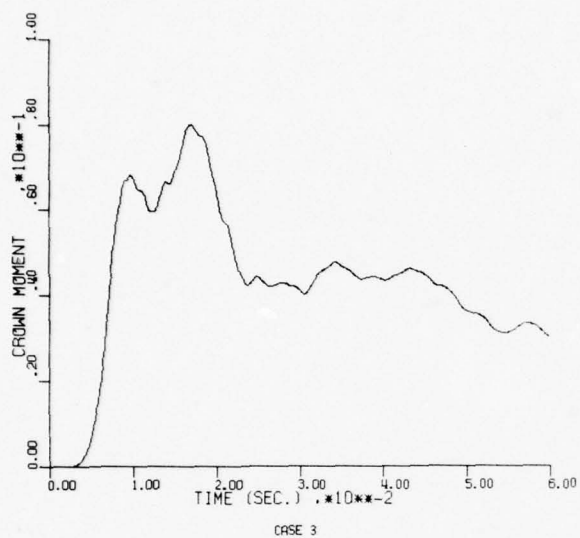


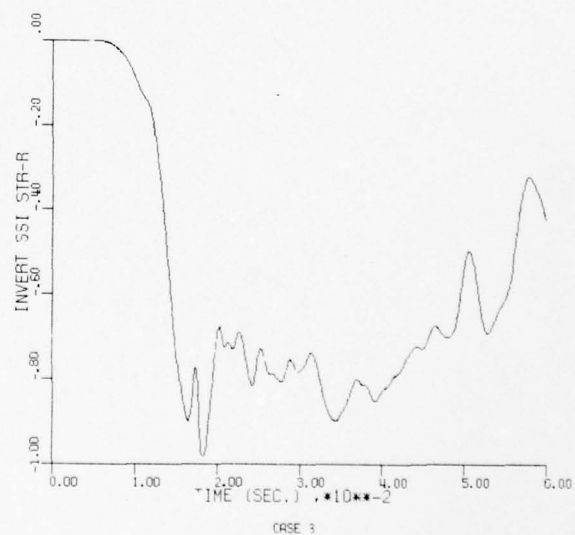
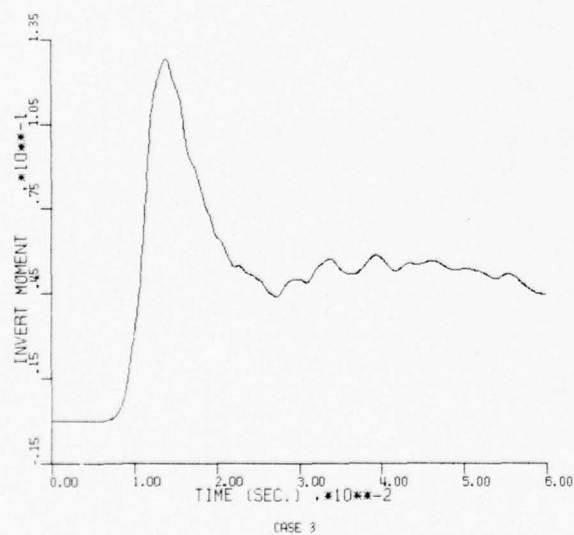
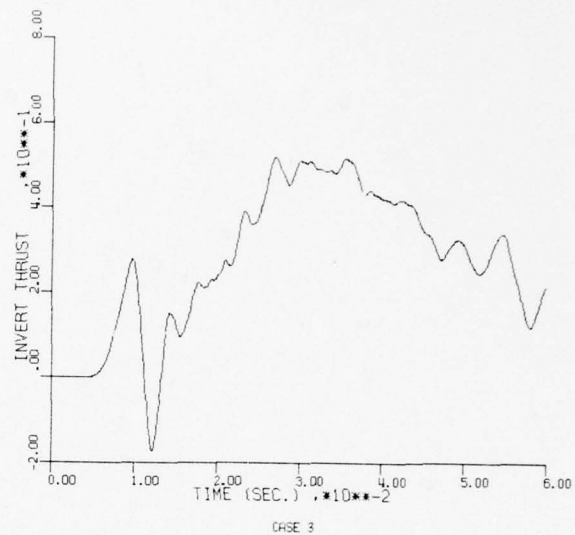
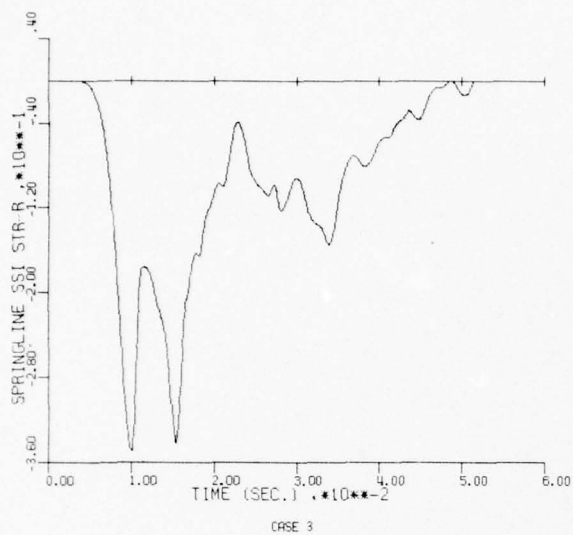












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CASE 4

MIN. VALUJS

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.095854	-2.696604	-.971397	-.019117
	2	-.010434	0.000000	-.184403	-2.472955	-.875339	-.035476
	3	0.000000	0.000000	-.274719	-2.053563	-.747953	-.113997
	4	0.000000	-.0012587	-.367665	-1.572810	-.613285	-.103072
	5	0.000000	-.0197063	-.368474	-1.078783	-.477210	-.148686
	6	0.000000	-.0332832	-.396059	-1.216273	-.529753	-.165047
	7	0.000000	-.0483483	-.354711	-.899126	-.588509	-.075298
	8	0.000000	-.0607489	-.408006	-.999416	-.652592	-.043002
	9	0.000000	-.0701786	-.347731	-.610921	-.500574	-.052025
	10	0.000000	-.0790117	-.352961	-.835467	-.645035	-.114031
SPR	11	0.000000	-.0847296	-.246101	-.538498	-.586779	-.123130
	12	0.000000	-.0916377	-.269929	-.687868	-.747896	-.196403
	13	0.000000	-.1017471	-.223014	-.551161	-.514230	-.221433
	14	0.000000	-.1105032	-.091604	-.568331	-.506193	-.244181
	15	0.000000	-.1121327	-.000000	-.699427	-.440543	-.237942
	16	0.000000	-.0977786	-.000000	-.643057	-.340369	-.233238
	17	0.000000	-.0773414	-.014159	-.759871	-.517063	-.236835
	18	0.000000	-.0504697	-.048784	-.647191	-.388917	-.279841
	19	0.000000	-.0150610	-.082686	-.987185	-.569683	-.462680
	20	-.051906	-.000000	-.118606	-.664957	-.326065	-.291102
INV	21	-.161612	-.000000	-.143685	-1.167266	-.488762	-.456887
	22	-.244972	-.000000	-.167278	-.849314	-.358116	-.242597
	23	-.318397	-.000000	-.163634	-1.104845	-.412871	-.209361
INV	24	-.333472	-.000000	-.059143	-1.022151	-.381878	-.052172

MAX. VALUJS

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.817867	.0753711	.025255	0.000000	0.000000	.184073
	2	.799154	.0693286	.030168	0.000000	0.000000	.399911
	3	.881560	.0636688	0.000000	0.000000	0.000000	.591889
	4	.902099	.0508408	0.000000	0.000000	0.000000	.561207
	5	1.020014	.0455048	0.000000	0.000000	0.000000	.413483
	6	1.120686	.0295338	.000000	0.000000	0.000000	.365811
	7	1.144769	.0121096	.073534	0.000000	0.000000	.438639
	8	1.153766	.000000	.130986	0.000000	0.000000	.339477
	9	1.123698	.000000	.196836	0.000000	0.000000	.283377
	10	1.049375	.000000	.250482	0.000000	0.000000	.282739
SPR	11	1.042595	.000000	.308858	0.000000	0.000000	.247291
	12	1.026879	.000000	.334515	0.000000	0.000000	.063036
	13	.995236	.0019612	.355321	0.000000	0.000000	.091226
	14	.960129	.0079620	.353629	0.000000	0.000000	.072009
	15	.932470	.0146296	.334919	0.000000	0.000000	.096061
	16	.907707	.0227344	.352787	0.000000	0.000000	.077205
	17	.848334	.0308843	.374521	0.000000	0.000000	.170250
	18	.793635	.0390623	.466040	0.000000	0.000000	.166421
	19	.646459	.0452560	.522520	0.000000	0.000000	.178486
	20	.555981	.0512432	.522630	0.000000	0.000000	.085984
INV	21	.473988	.0631146	.427255	0.000000	0.000000	.190491
	22	.513309	.0896903	.356234	0.000000	0.000000	.152349
	23	.550063	.1082421	.274653	0.000000	0.000000	.137961
INV	24	.576910	.1260735	.123614	0.000000	0.000000	.064193

MIN-MAX MODAL AMPLITUDES -- CASE 4

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.79271E-01	-.40021E+00	-.15305E+00	-.92620E-01	-.53822E-01	-.31613E-01	-.22083E-01
MAX	.66735E+00	.51535E+00	.90749E-01	.67119E-01	.38227E-01		

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.35807E-02	-.17537E-03	-.35200E-01	-.26041E-01	-.13364E-01	-.74524E-02	.61519E-02
MAX	.21512E-05	.89767E-03	.36696E-01	.15574E-01	.60209E-02		

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.74362E-02	-.34625E+00	-.19527E+00	-.11702E+00	-.67895E-01	-.50298E-01	.72655E-01
MAX 0.	.16732E-01	0.	.15676E+00	.16774E+00	.10858E+00		

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.63057E+00	-.70718E+00	-.60655E+00	-.47994E+00	-.35197E+00	-.24197E+00	-.16387E+00
MAX 0.		.16043E+00	.92558E-03	.27858E+00	.33078E+00	.24234E+00	.15576E+00

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.60998E-01	-.57613E-01	-.44272E-01	-.51715E-01	-.63420E-01	-.37358E-01	.59974E-01
MAX 0.		.67294E-01	.14055E+00	.12116E+00	.86032E-01		



	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
GRSS	.01264	.002664	.001017	.001537	.000309	.000868	.000223	.000223	.99865E-02
MIN.	0.00000	0.00000	-.006598	-.016171	-.000981	-.006413	-.001261	0.	0.
MAX.	.015966	1.331822	1.197299	1.016086	.946612	.934747	.951458	.81787E+00	.81787E+00

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
GRSS	-.021537	.024676	.001676	.000248	.001401	.000514	.000022	.000000	.15790E-02
MIN.	-.003581	-.003183	.000000	.000000	.000000	.000000	.000000	.000000	0.
MAX.	-.000029	-.009812	1.148781	1.027054	.999847	1.003459	1.012753	1.012753	.75371E-01

[illegible]

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.001173	.001474	.000687	.000444	.000439	.000248	.000061	.000000	VARIABLE .20878E+01
MIN.	0.000000	0.000000	-0.000000	-0.000001	-0.000003	-0.000013	-0.000000	-0.000000	0.
MAX.	.649384	.657805	1.002823	1.013765	1.003687	1.000168	.998387	.10269E+01	.10269E+01

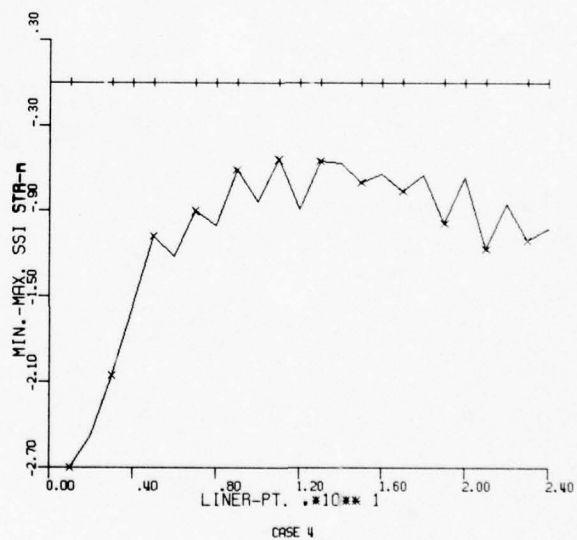
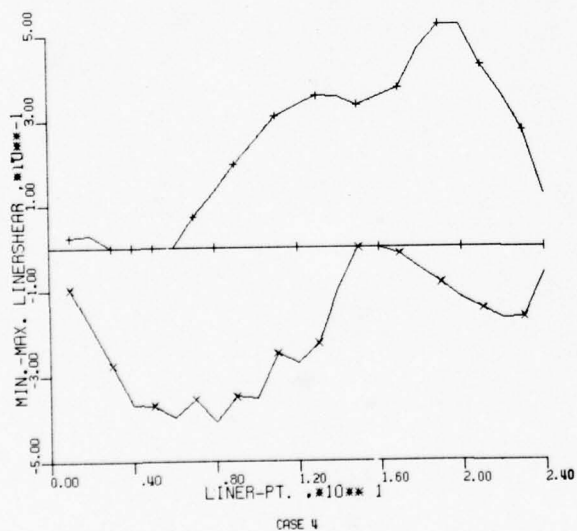
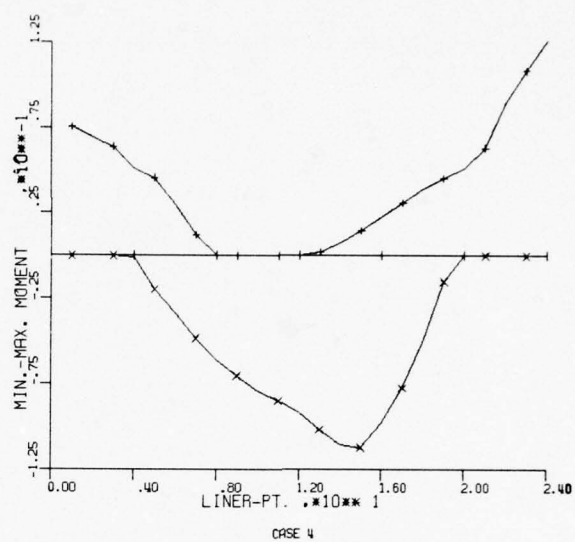
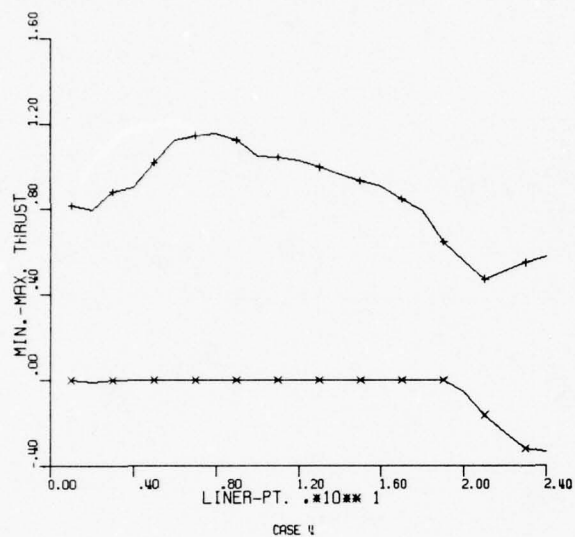
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3  
SRSS .017697 .001644 .001364  
MIN. .039074 .038654 .953041  
MAX. .000002 .000010 0.000000 0.000000  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .21517E-02  
VARIABLE .000154 .000375 .000018  
- .91638E-01 1.012186 1.005461 1.025484  
.27764E-17 .000027 .001220 .000004

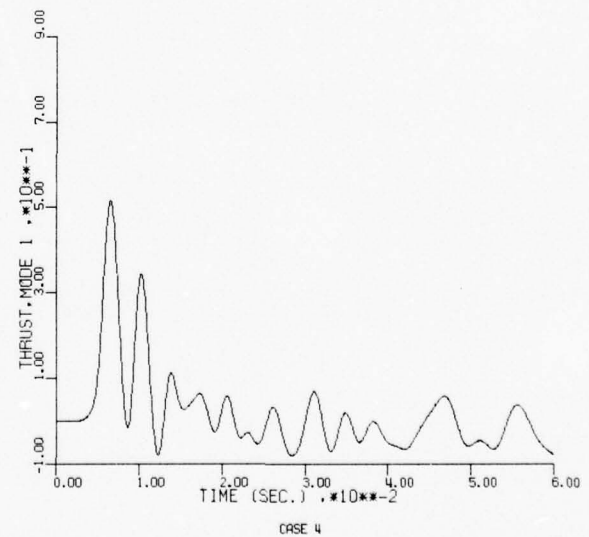
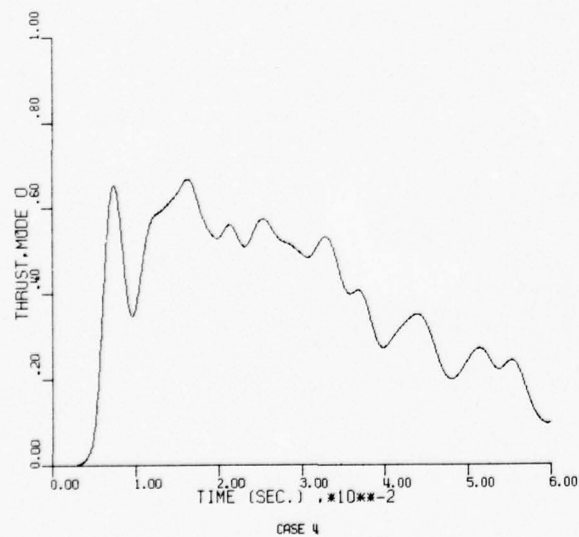
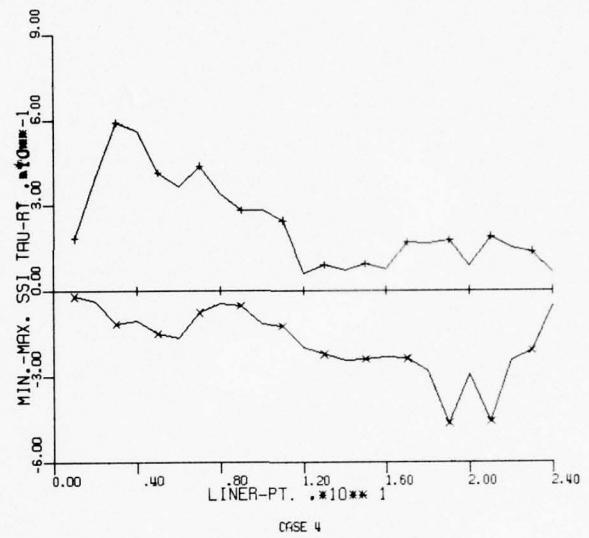
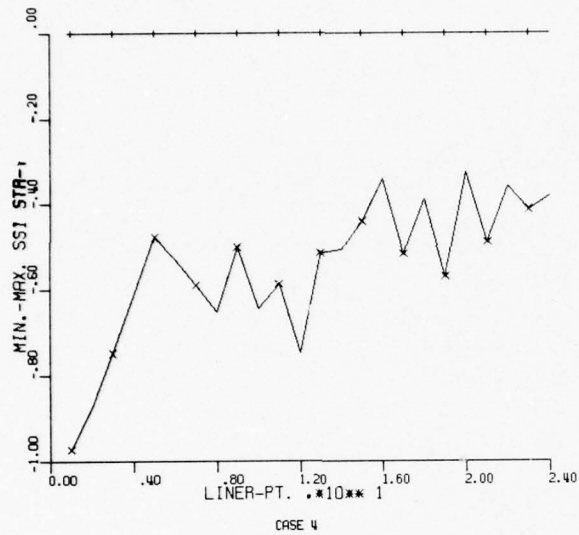
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3  
SRSS .015832 .014755 .004280 .002788  
MIN. .710212 .719153 .513370 .510399  
MAX. 0.000000 0.000000 .184497 .278539  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .89187E-02  
VARIABLE .004188 .004186 .002789  
- .88787E+00 .578341 .617698 .699194  
0. .042297 .047168 .009042

INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3  
SRSS .015590 .005512 .007241 .004560  
MIN. 0.000000 .214046 1.035514 1.013155  
MAX. 1.156769 1.147224 .783463 .927271 1.018022 .978152 .996356  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .95126E-02  
VARIABLE .002622 .001386 .000708  
- .33347E+00 .997274 1.031333 1.026913  
.57691E+00 1.018022 .978152 .996356

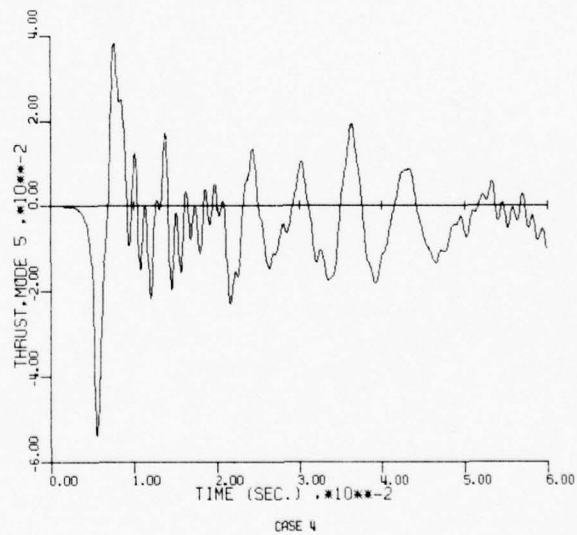
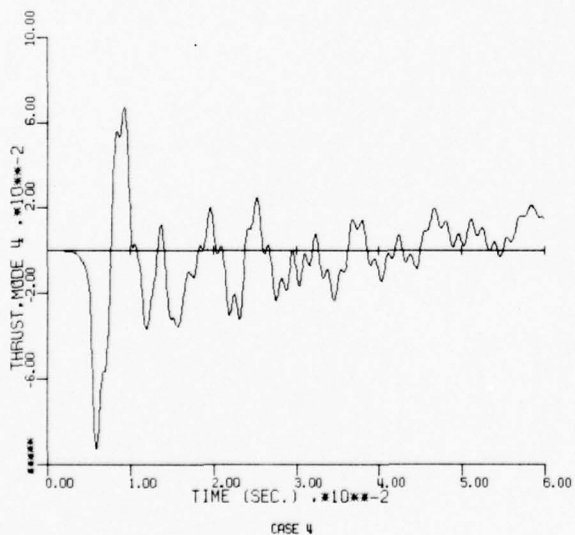
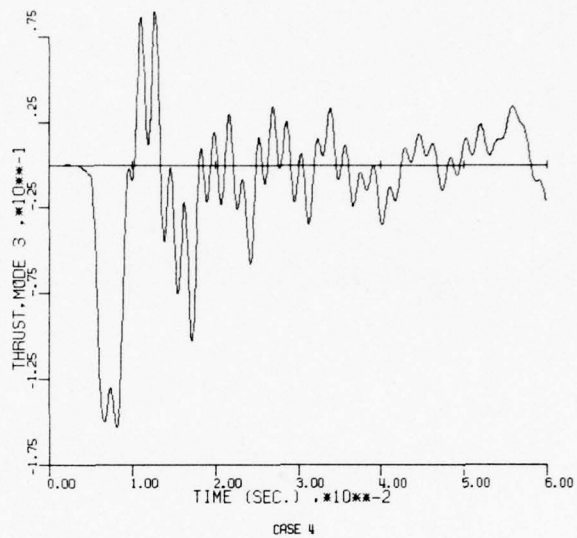
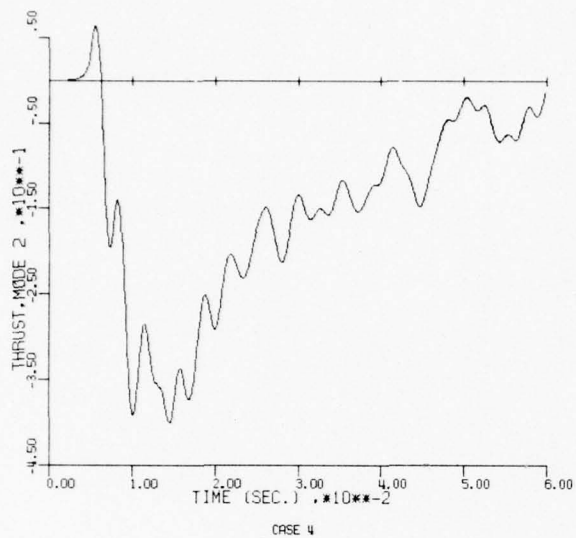
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3  
SRSS .023511 .023405 .003231 .001763  
MIN. -.003581 -.004178 0.000000 -.012100  
MAX. .000017 0.000000 .063639 .946421 .980735 .936843 .939649  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .20621E-02  
VARIABLE .000501 .000178 .000232  
- .16289E-07 -.008581 -.001589 -.002212  
.12607E+00 .980735 .936843 .939649

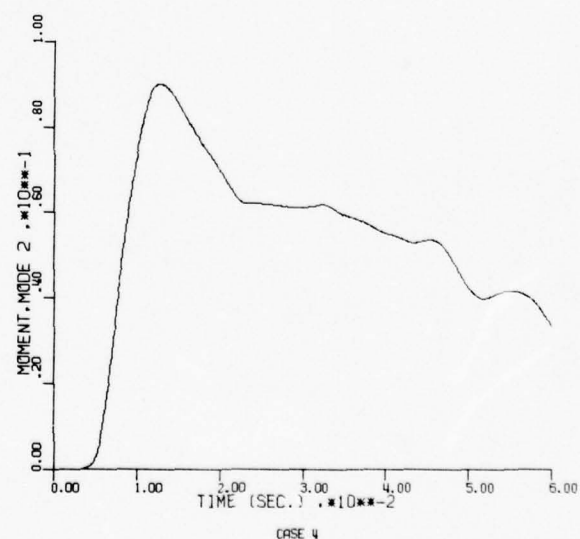
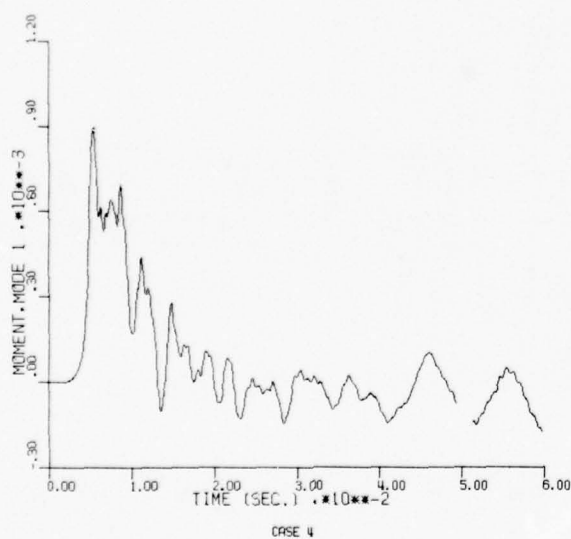
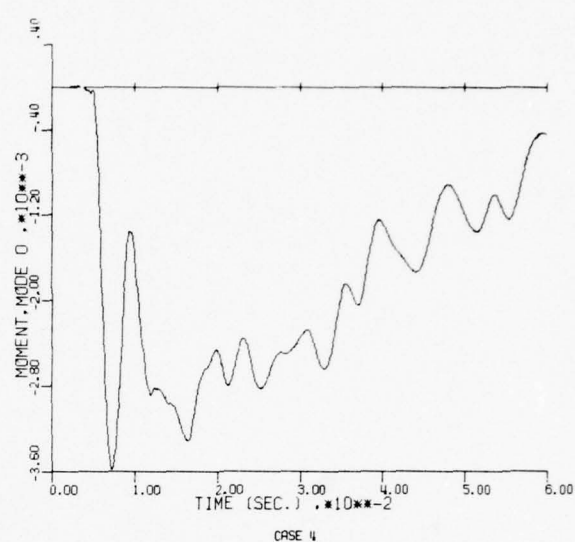
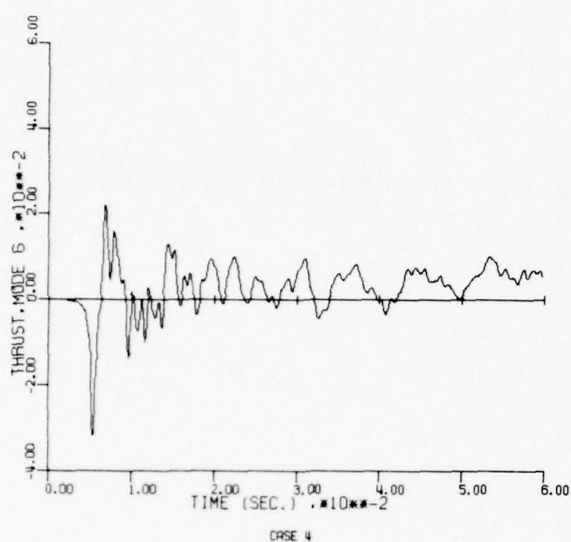
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3  
SRSS .008237 .001194 .006967 .010183  
MIN. .616909 .635277 .980094 1.087440  
MAX. 0.000000 .331305 0.000000 .201930  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .20802E-01  
VARIABLE .009583 .009581 .006590  
- .10222E+01 1.089451 1.074876 1.027438  
0. .098153 .092567 .055468

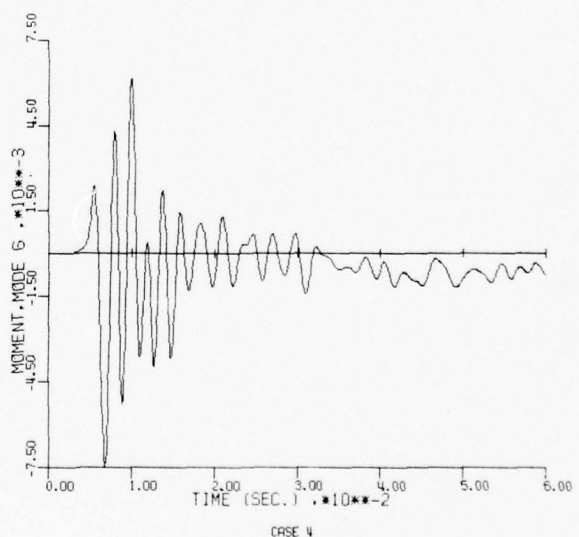
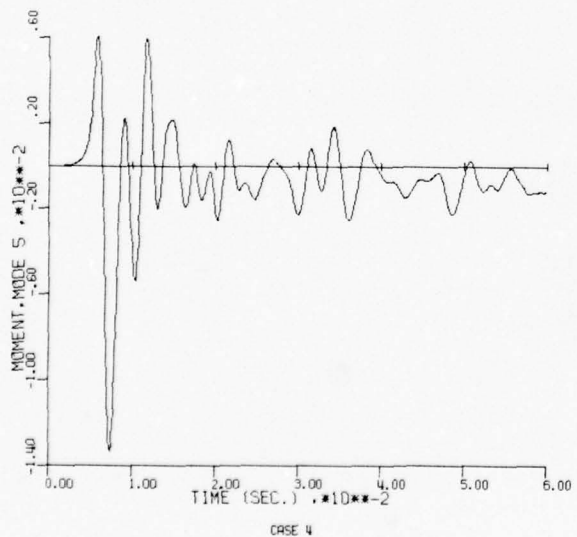
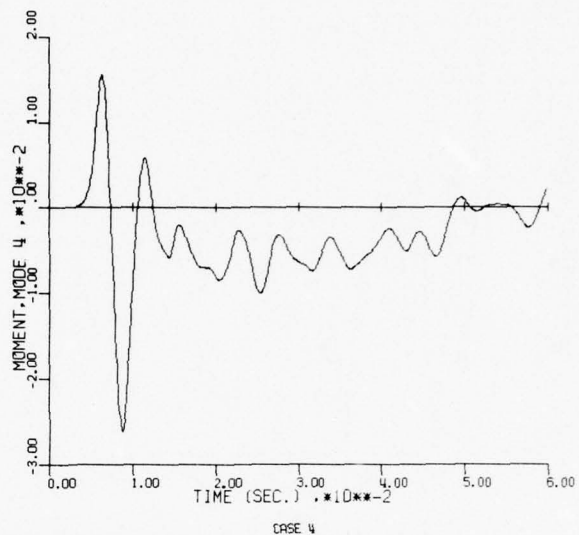
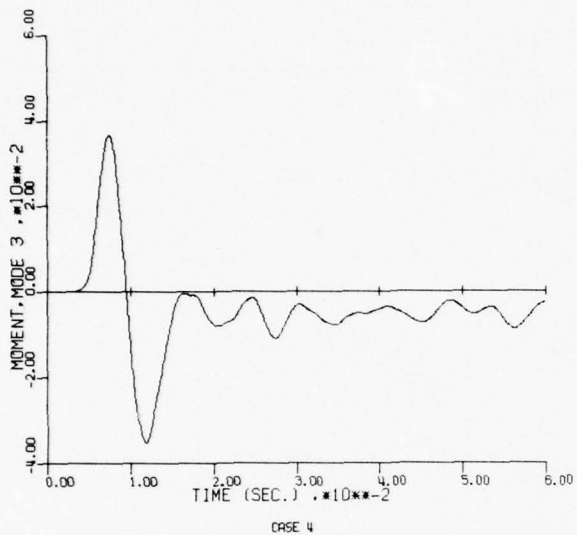


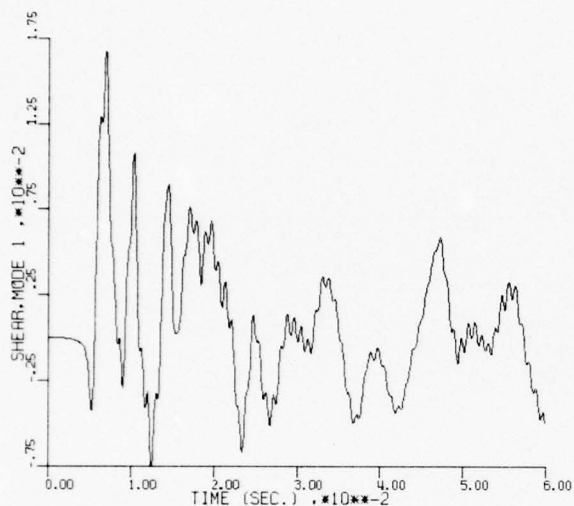




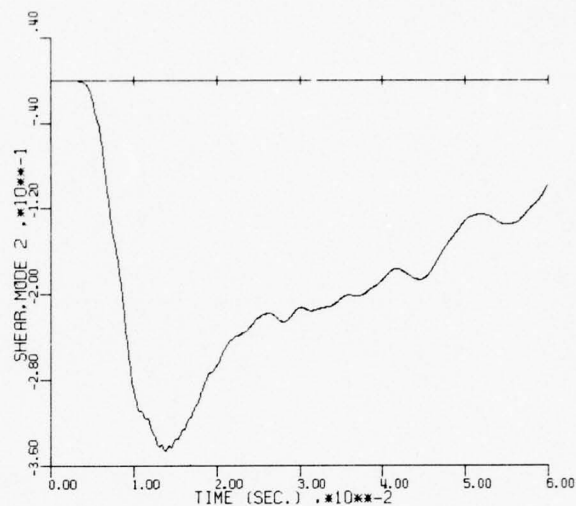




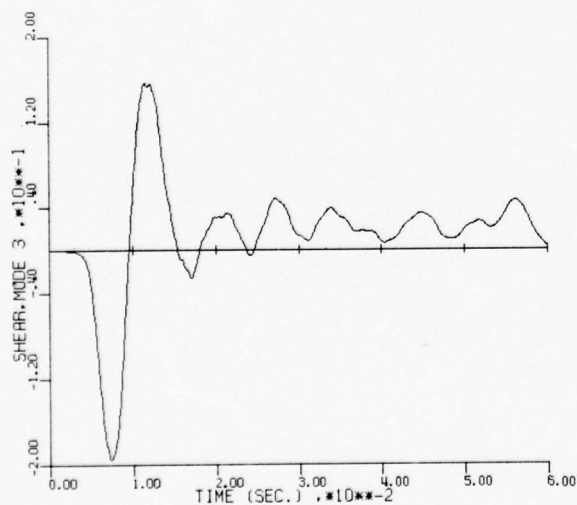




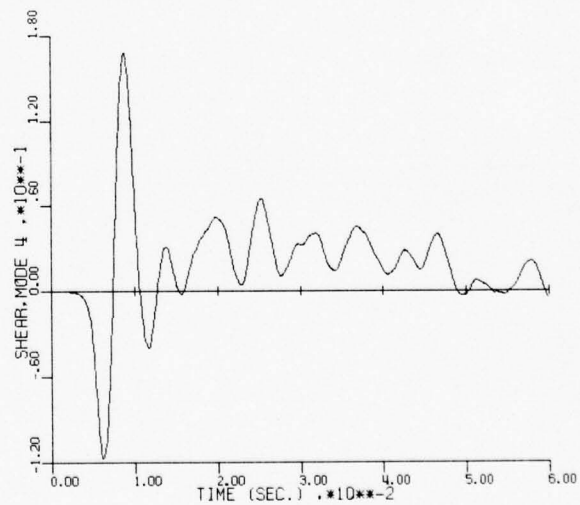
CASE 4



CASE 4

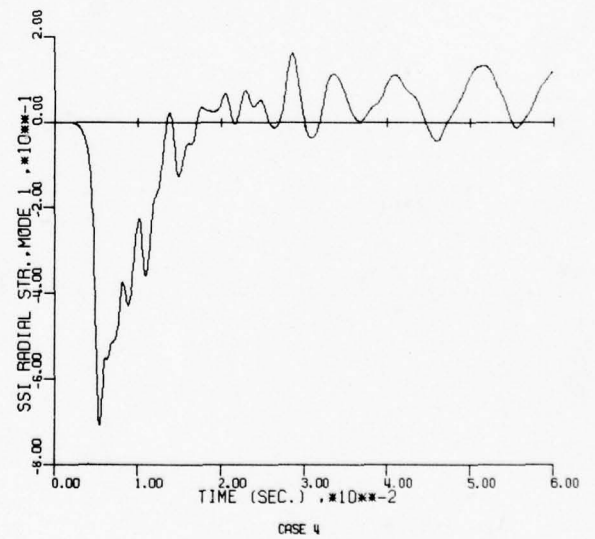
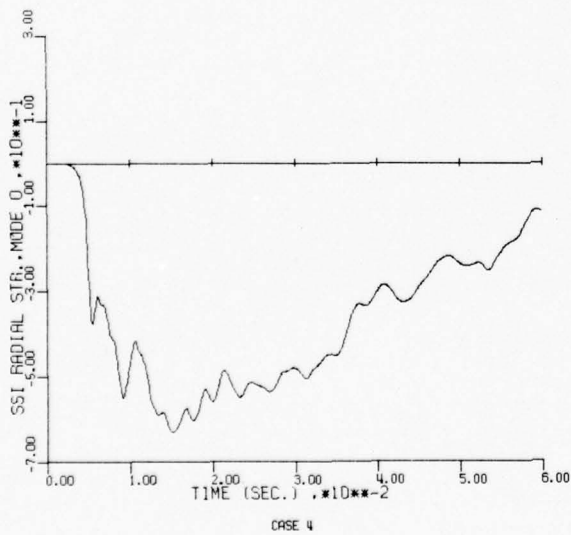
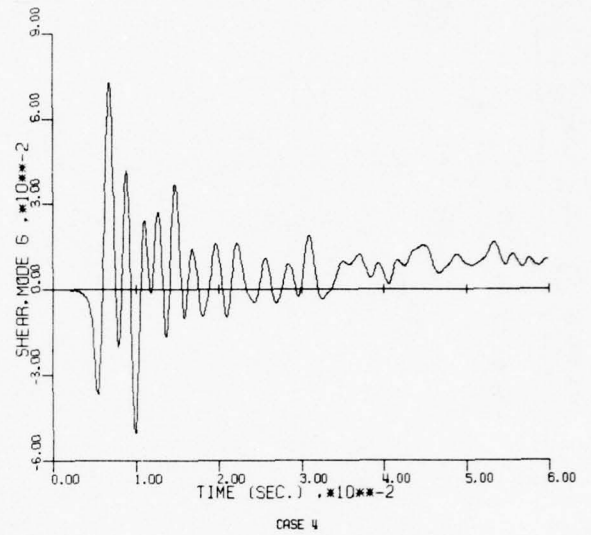
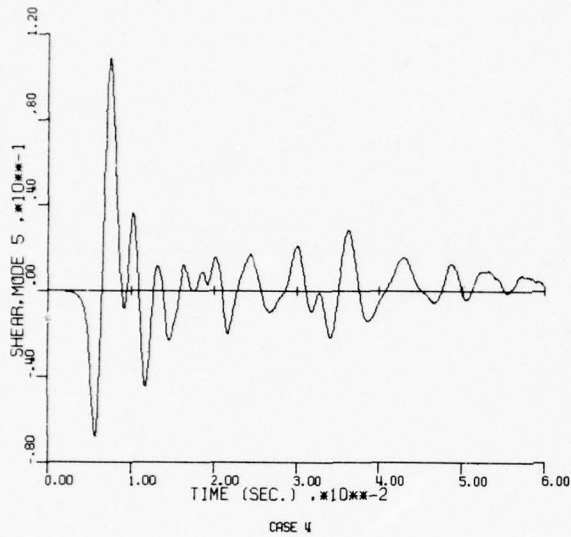


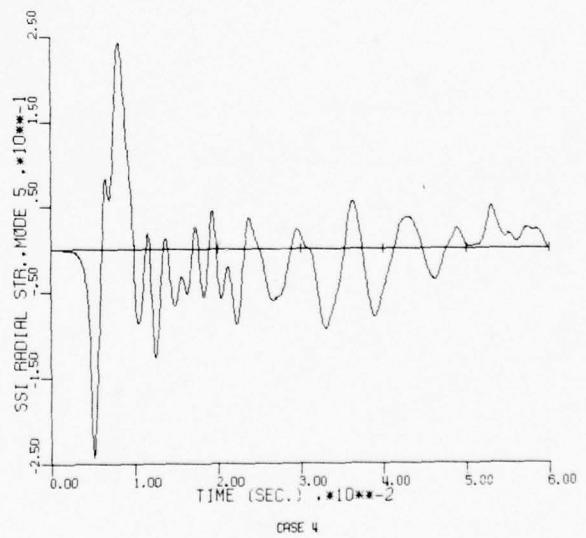
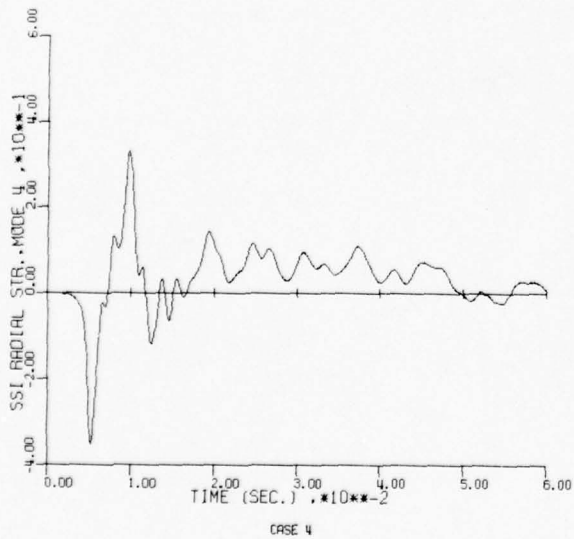
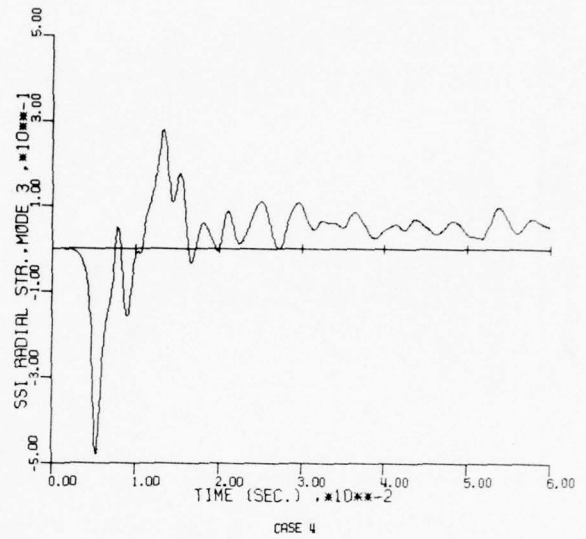
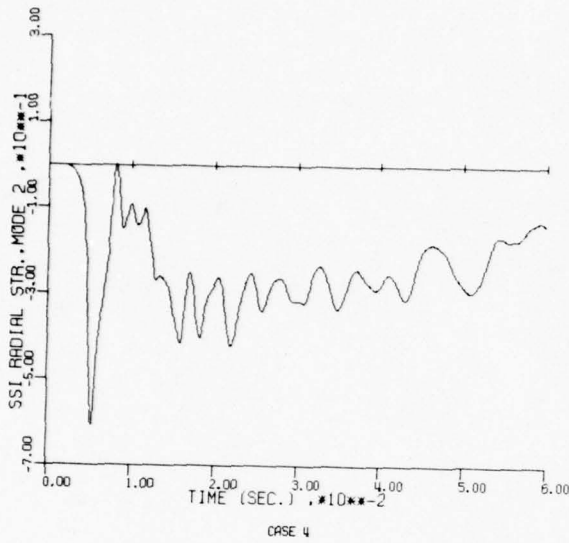
CASE 4

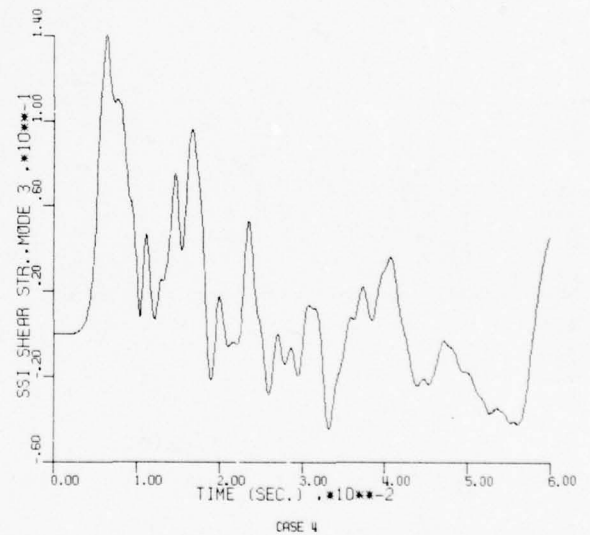
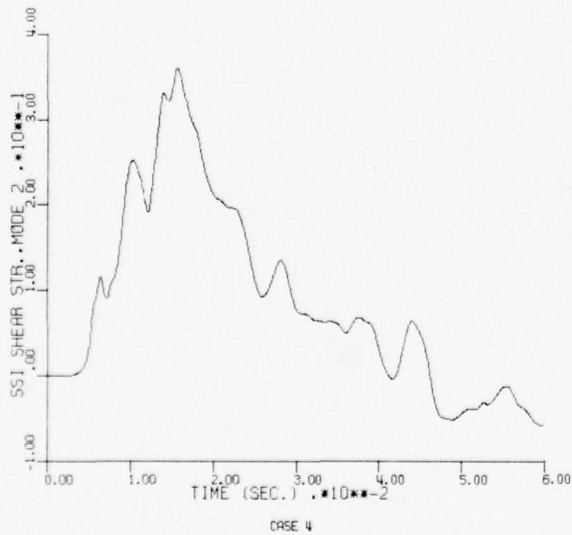
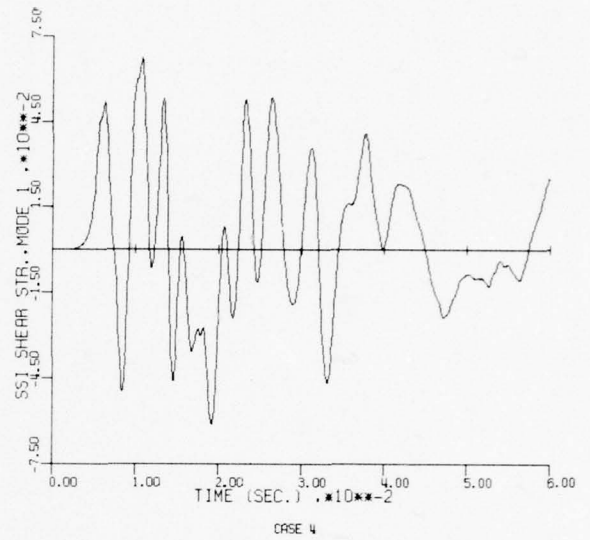
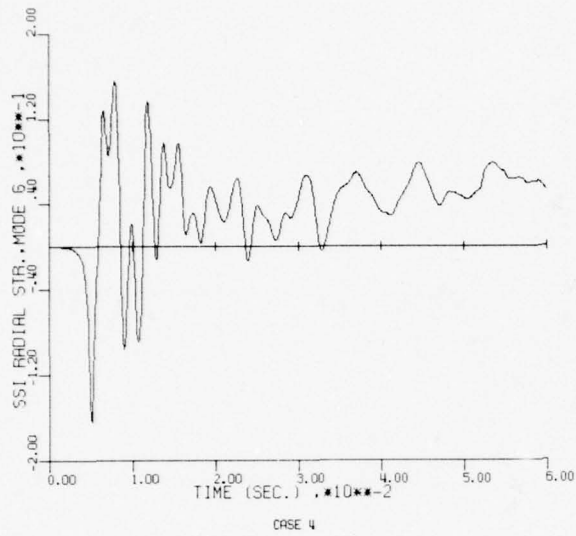


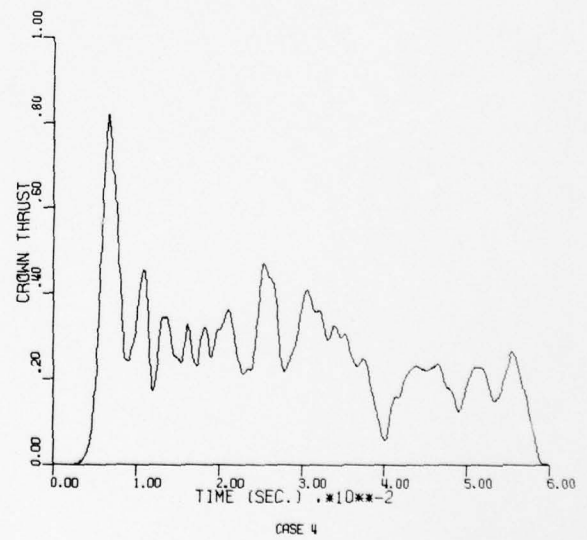
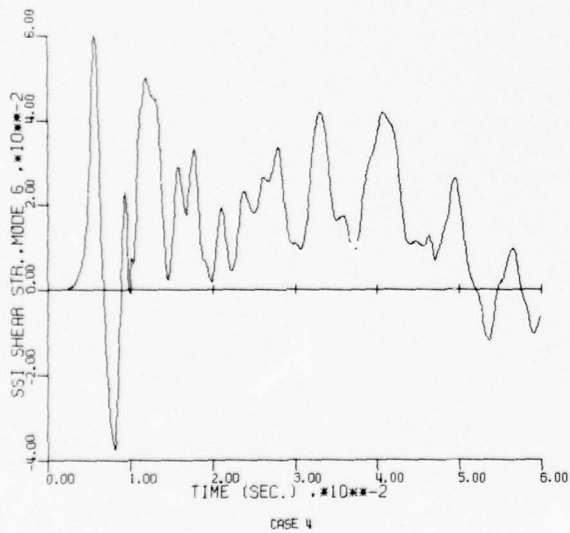
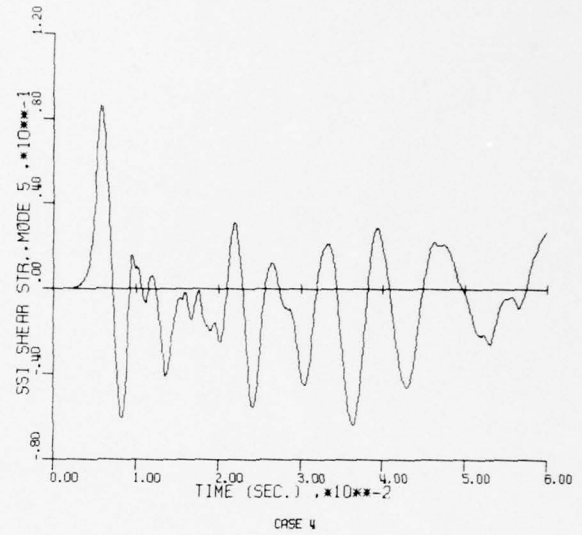
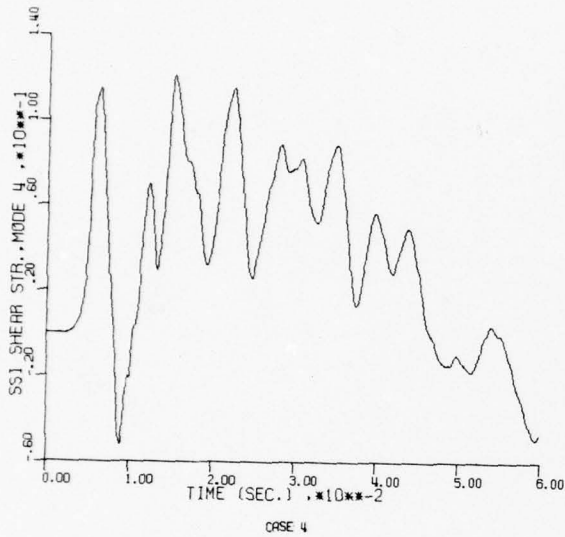
CASE 4



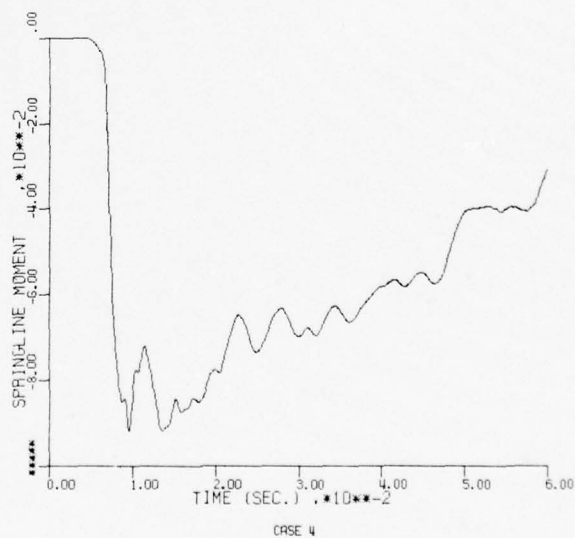
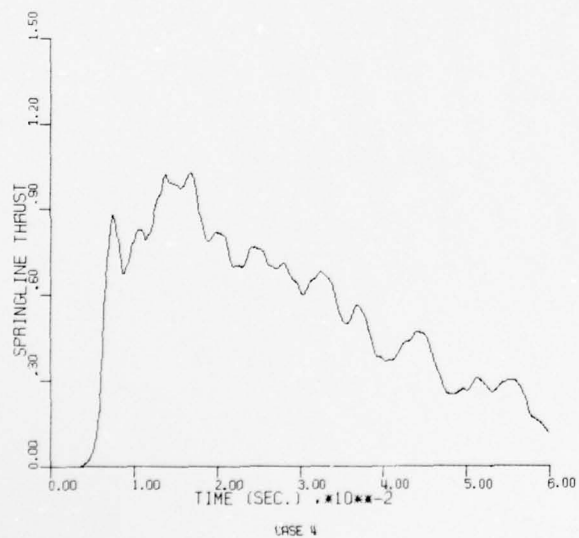
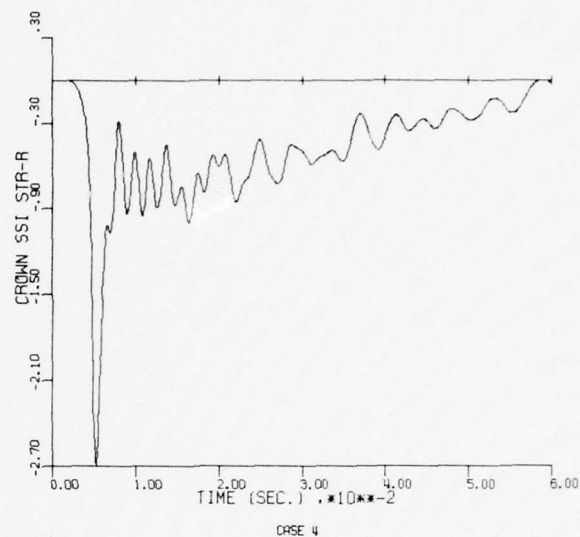
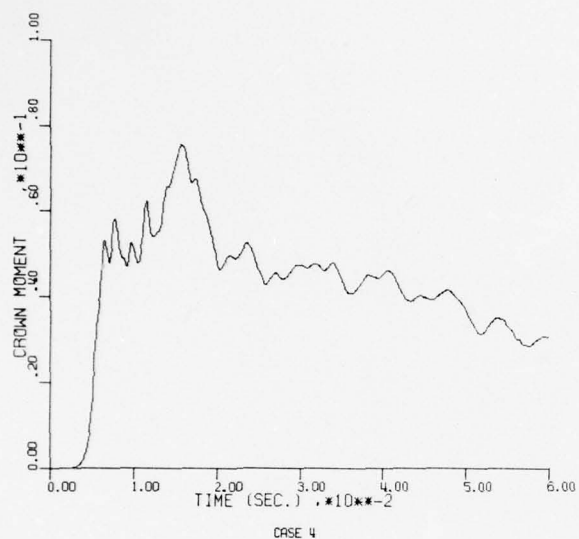


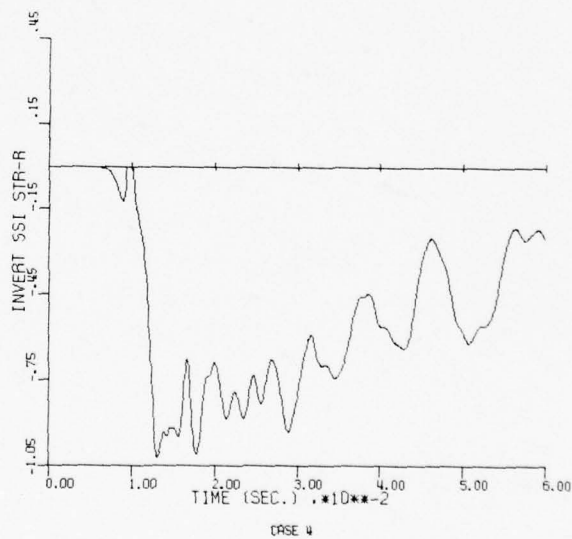
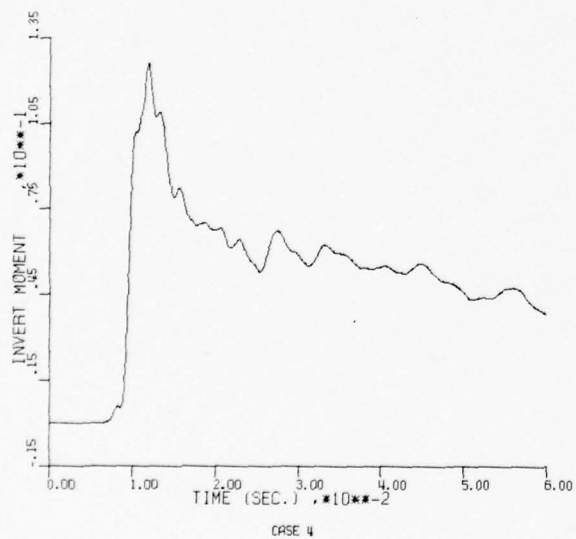
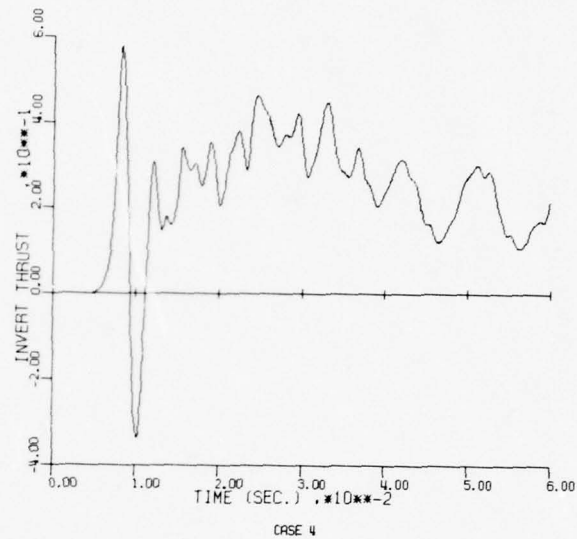
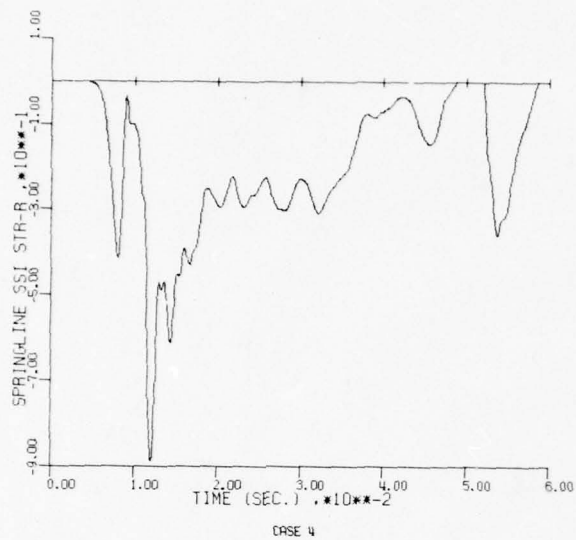












CASESA

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MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.115809	-.0206442	-.073691	-1.878543	-.633240	-.083463
	2	-.091425	-.0187129	-.150451	-1.668748	-.586890	-.119983
	3	-.056832	-.0150541	-.237661	-1.486371	-.548391	-.193789
	4	-.030455	-.0154336	-.296817	-1.444852	-.448073	-.100534
	5	-.009053	-.0116999	-.335184	-1.130878	-.460147	-.095916
	6	-.066059	-.0216217	-.376468	-1.080806	-.389599	-.042447
	7	-.066012	-.0374502	-.354259	-.775139	-.379977	-.081679
	8	-.056044	-.0513166	-.357904	-.612891	-.356333	-.005086
	9	-.047073	-.0642405	-.333011	-.496100	-.269557	-.034852
	10	-.066295	-.0742436	-.331359	-.512369	-.235616	-.157675
SPR	11	-.048102	-.0819282	-.294969	-.321867	-.262646	-.207900
	12	-.038086	-.0866293	-.259161	-.354879	-.309993	-.280593
	13	-.044225	-.0921080	-.172890	-.409943	-.104879	-.262954
	14	-.033590	-.0993824	-.067394	-.461809	-.116973	-.307284
	15	-.032761	-.0986523	-.064801	-.495462	-.137466	-.283753
	16	-.031686	-.0872472	-.073566	-.511865	-.177857	-.299371
	17	-.040125	-.0668021	-.065586	-.515934	-.158552	-.307994
	18	-.037400	-.0399952	-.079171	-.479466	-.243446	-.317343
	19	-.038920	-.0070274	-.074716	-.568833	-.183372	-.349827
	20	-.019577	-.0058504	-.114728	-.583970	-.203705	-.329491
INV	21	-.104125	-.0097218	-.113891	-.592225	-.252753	-.280882
	22	-.177969	-.0143928	-.090440	-.598462	-.232133	-.163790
	23	-.243058	-.0175864	-.086563	-.655228	-.255655	-.205592
	24	-.280284	-.0207081	-.048282	-.695260	-.273515	-.081968

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.631142	.0595737	.046625	.008273	.114994	.151979
	2	.650312	.0558708	.089755	0.000000	.138683	.255785
	3	.716035	.0542676	.109491	.016758	.092947	.411631
	4	.752376	.0470863	.069298	0.000000	.086800	.317339
	5	.825819	.0411852	.092431	0.000000	.120640	.373859
	6	.903210	.0332714	.111876	0.000000	.077961	.286368
	7	.937422	.0168331	.087819	.029137	.049401	.357289
	8	.955006	.0102332	.064835	0.000000	.019600	.195043
	9	.938080	.0122769	.065671	.075069	.043645	.320926
	10	.896577	.0133066	.119657	.034978	.083285	.163407
SPR	11	.834896	.0166442	.175903	0.000000	.046712	.152492
	12	.757884	.0178111	.213479	.094565	0.000000	.051633
	13	.671065	.0156967	.243438	.004516	.034698	.019137
	14	.616330	.0147316	.268089	.006750	.012525	.000000
	15	.607599	.0134957	.276295	0.000000	.043381	0.000000
	16	.575641	.0105375	.309671	0.000000	.042706	.061107
	17	.548394	.0128625	.337336	0.000000	.047557	.089435
	18	.490624	.0204023	.408862	.007098	.050150	.072007
	19	.412490	.0271010	.456235	0.000000	.034361	.145350
	20	.317325	.0362145	.436783	.035887	.127617	.030433
INV	21	.258694	.0550527	.406359	0.000000	0.000000	.069183
	22	.258375	.0820233	.313401	.004055	.175088	.064467
	23	.257381	.0996982	.205964	.013098	.173756	.012687
	24	.259684	.1095606	.081610	0.000000	.189657	.072878

MIN-MAX MODAL AMPLITUDES -- CASE 5A

LINER THRUST PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.11095E+00	-.31359E+00	-.13662E+00	-.53768E-01	-.26295E-01
MAX	.55507E+00	.37354E+00	.61768E-01	.11786E+00	.66993E-01	.34211E-01
						MODE 6
						-.17457E-01
						.26936E-01
LINER MOMENT PLAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.28878E-02	-.31714E-03	-.13811E-01	-.34196E-01	-.16930E-01	-.68707E-02
MAX	.20124E-05	.70040E-03	.80085E-01	.31349E-01	.82971E-02	.58919E-02
						MODE 6
						-.34853E-02
						.30055E-02
LINER SHEAR PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.80752E-02	-.29196E+00	-.17493E+00	-.70791E-01	-.52102E-01
MAX	0.	.13655E-01	.52521E-01	.17447E+00	.12077E+00	.64602E-01
						MODE 6
						-.21017E-01
						.40448E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.40110E+00	-.57046E+00	-.41396E+00	-.30004E+00	-.19183E+00	-.14436E+00
MAX	0.	.17258E+00	.37090E-01	.18370E+00	.26922E+00	.20803E+00
						MODE 6
						-.47654E-01
						.14218E+00
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.10030E+00	-.15017E-01	-.93037E-01	-.77581E-01	-.86417E-01
MAX	0.	.36025E-01	.20646E+00	.14014E+00	.10926E+00	.43840E-01
						MODE 6
						-.61424E-01
						.33698E-01



CASE 5A

CROWN THRUST

MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.008512	.003454	.000298	.004091	.001317	.003369	.10314E-01	VARIABLE
MIN.	0.000000	.627728	.609290	.967657	1.023737	.944457	-.11581E+00	
MAX.	.880737	1.253240	1.055442	.984131	.979741	.995013	.65114E+00	

CROWN MOMENT

MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.021136	.004133	.000731	.001252	.000997	.002333	.17576E-02	VARIABLE
MIN.	.139885	.681905	.708023	.808040	.929142	1.047636	-.20644E-01	
MAX.	.000034	1.311912	1.265741	1.130800	1.038383	1.000323	.59574E-01	

CROWN SSI STR-R

MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.004190	.000109	.000509	.001721	.000452	.001413	.25969E-01	VARIABLE
MIN.	.213517	.687016	.851963	.944484	.984471	.995121	-.18785E+01	
MAX.	0.000000	7.270036	1.041136	6.634633	4.433743	7.521907	.82726E-02	

SPRINGLINE THRUST

MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.001342	.000805	.000030	.002235	.001673	.000448	.17273E-01	VARIABLE
MIN.	0.000000	.607870	.737747	.983971	1.0069393	1.026360	-.38086E-01	
MAX.	.733449	.988785	1.023876	1.012708	1.023959	1.000679	.75788E+00	

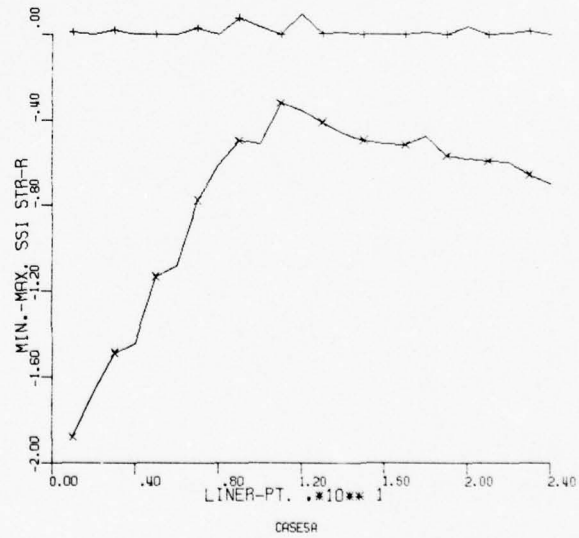
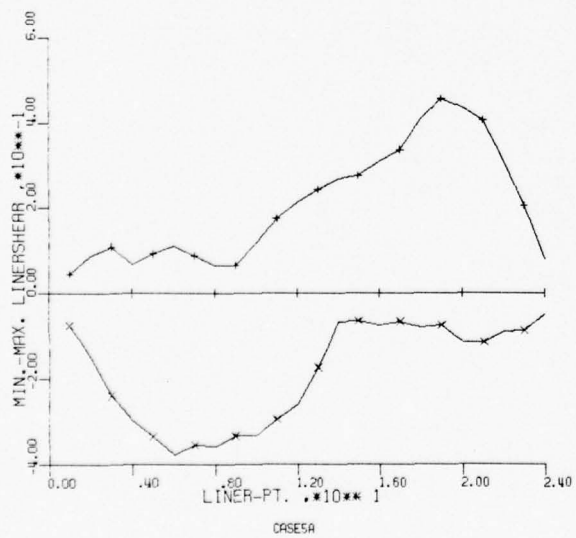
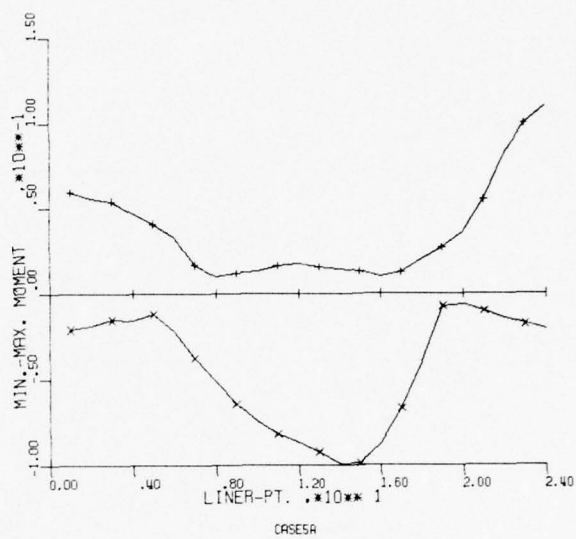
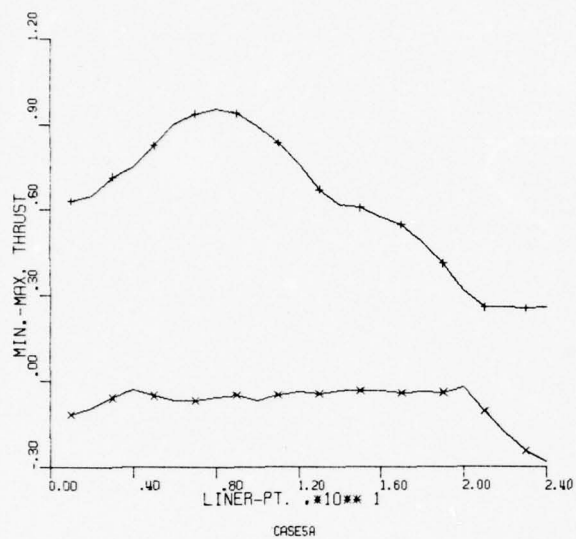
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .015522 .015529 .001877 .001330 .000908 .001526 .000443  
MIN. .033335 .032857 .932896 .856081 .976968 .981416 .977706  
MAX. .000113 .000167 .755980 .749745 .760584 .758021 .903678  
INPUT  
VARIABLE  
.21708E-02  
-.80629E-01  
.17811E-01

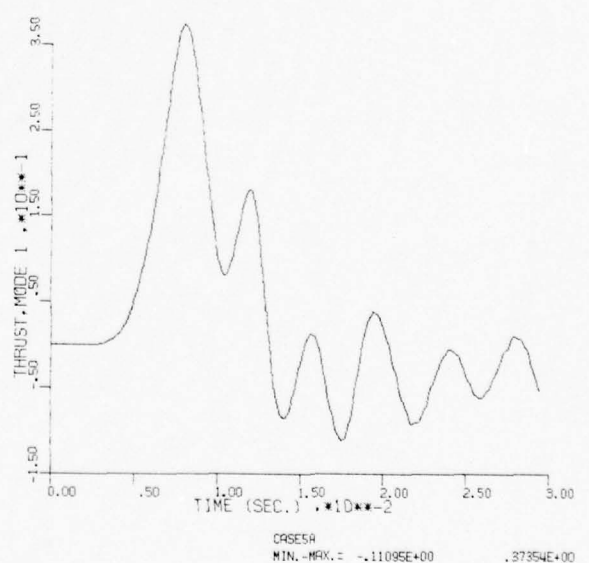
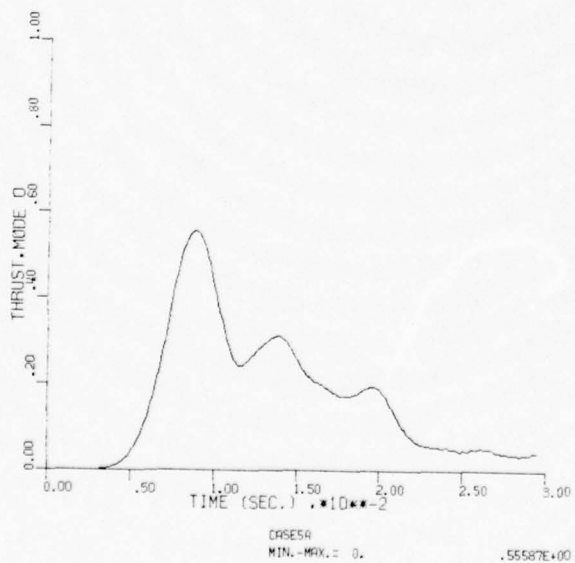
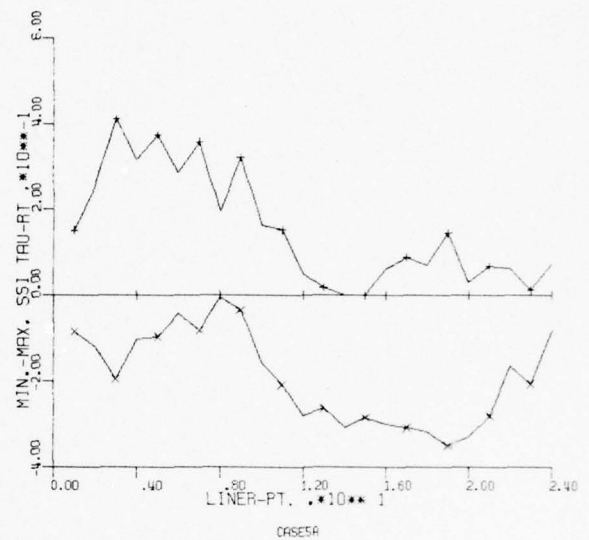
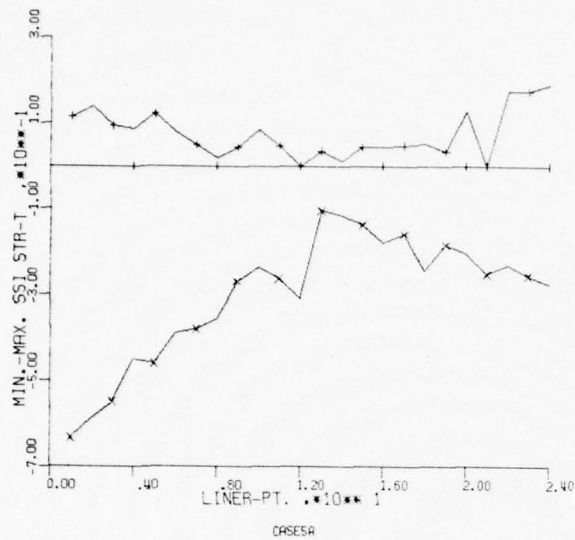
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .027460 .024133 .042971 .043690 .036618 .039133 .044745  
MIN. 1.130249 1.216752 1.201596 1.202768 .789172 .609065 .953043  
MAX. 0.000000 0.000000 .709911 1.283880 .659734 .748527 .080528  
INPUT  
VARIABLE  
.44487E-02  
-.35488E+00  
.94565E-01

INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .007759 .026168 .027410 .022091 .015698 .011023 .007565  
MIN. 0.000000 .044425 .830022 1.002277 .961434 1.005898 .970698  
MAX. 2.140563 1.527393 .652883 1.014862 1.069892 .950980 1.015727  
INPUT  
VARIABLE  
.61199E-02  
-.28028E+00  
.25968E+00

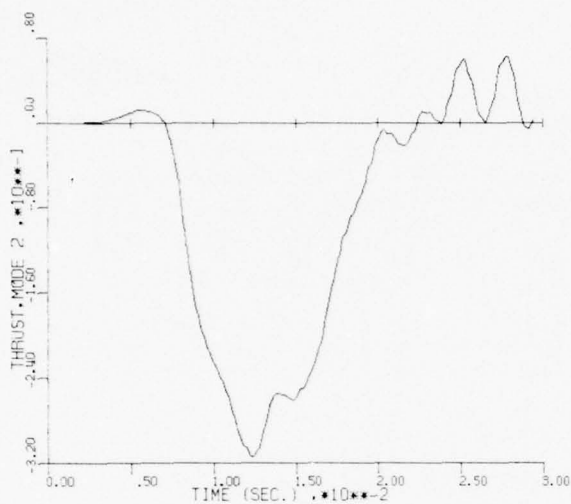
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .010124 .010243 .003963 .001097 .000658 .001236 .000110  
MIN. .139454 .170144 .673233 .708928 .855165 .939994 .878986  
MAX. .000018 .000560 .709991 1.015925 1.016997 .987510 .988091  
INPUT  
VARIABLE  
.20860E-02  
-.20708E-01  
.10956E+00

INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .008041 .009679 .003080 .004673 .002348 .000087 .001932  
MIN. .576909 .555442 .851691 1.002240 .997517 .972644 .940659  
MAX. 0.000000 .230006 0.000000 .115677 .043303 .035275 .060717  
INPUT  
VARIABLE  
.15533E-01  
-.69526E+00  
0.

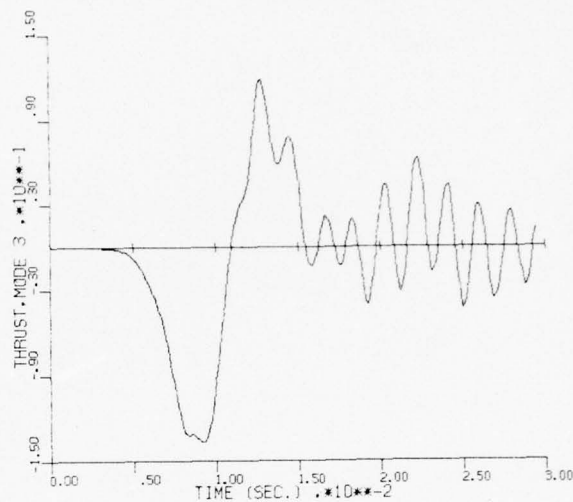




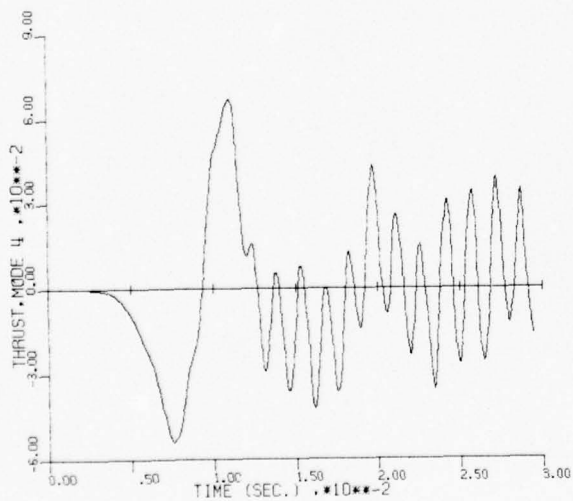




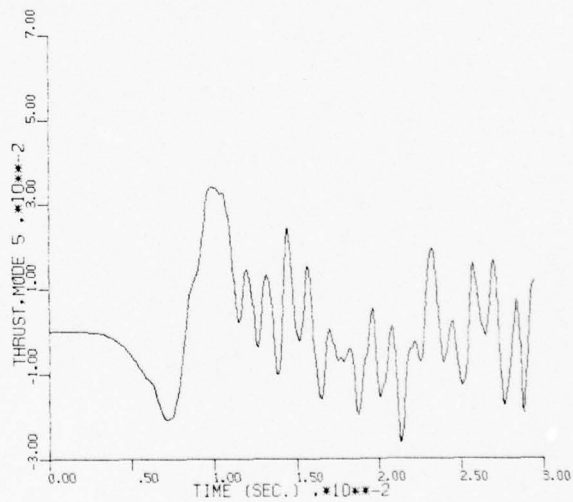
CASE5A  
MIN.-MAX. = -.31359E+00 .61768E-01



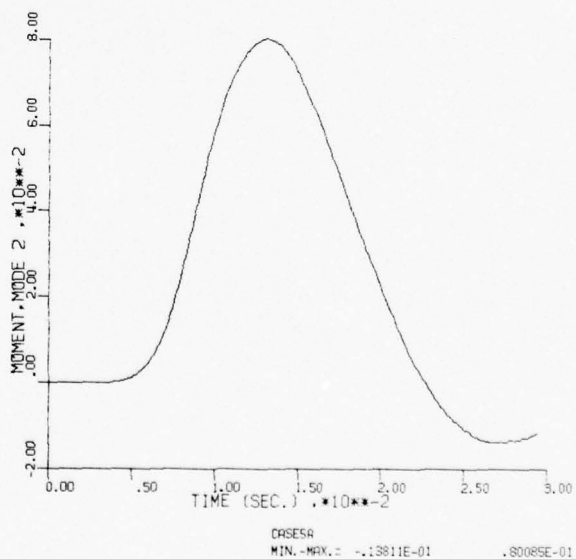
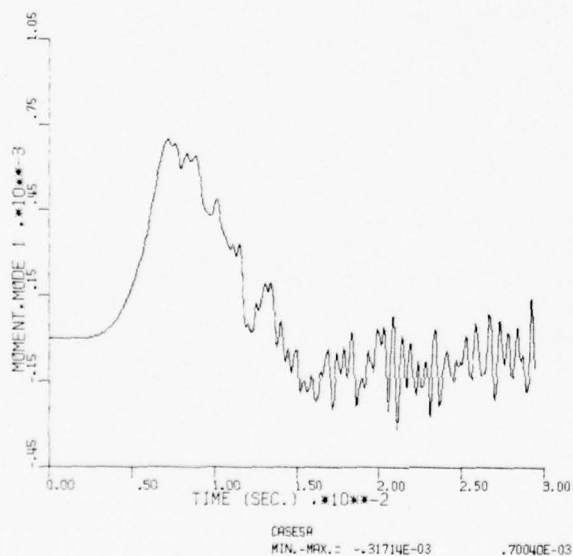
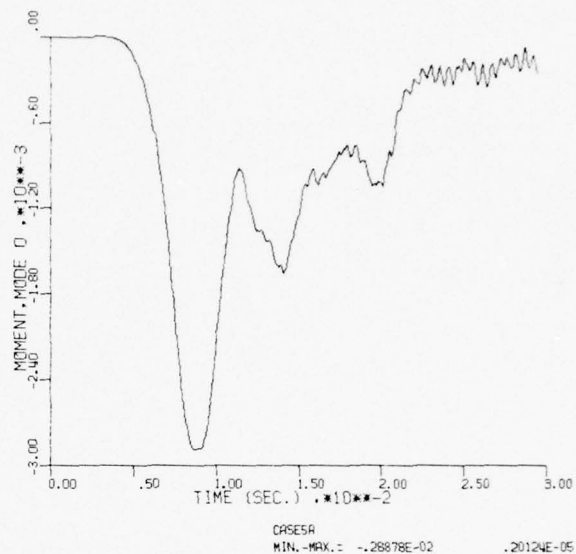
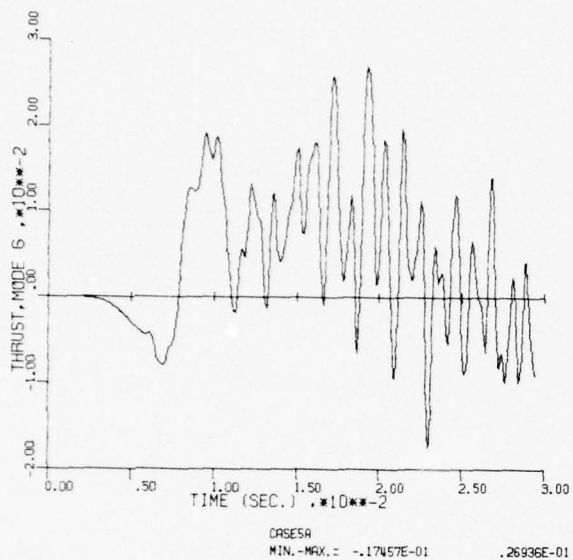
CASE5A  
MIN.-MAX. = -.13662E+00 .11786E+00

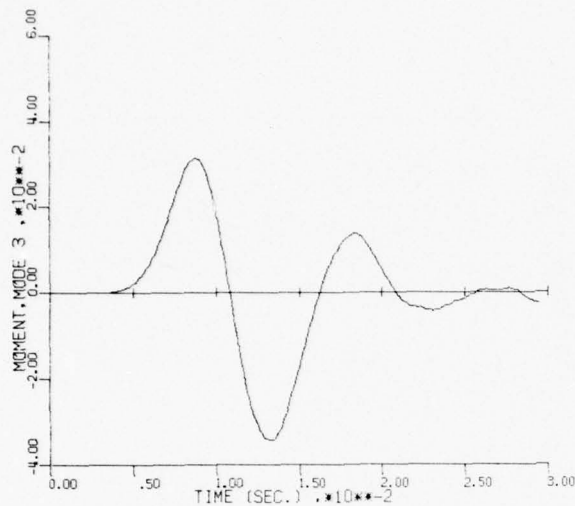


CASE5A  
MIN.-MAX. = -.53768E-01 .66993E-01

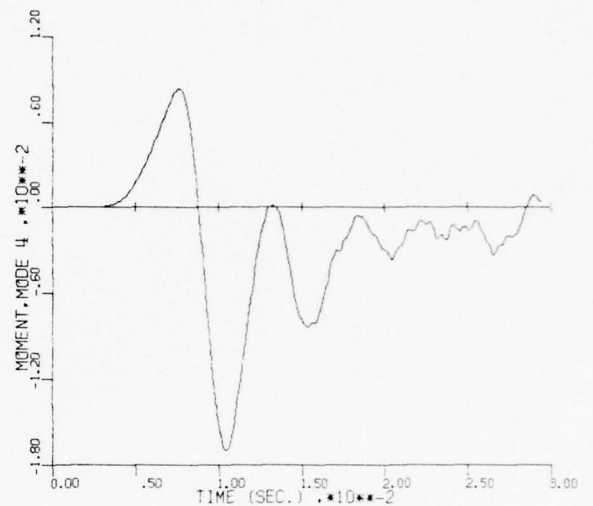


CASE5A  
MIN.-MAX. = -.26295E-01 .34211E-01

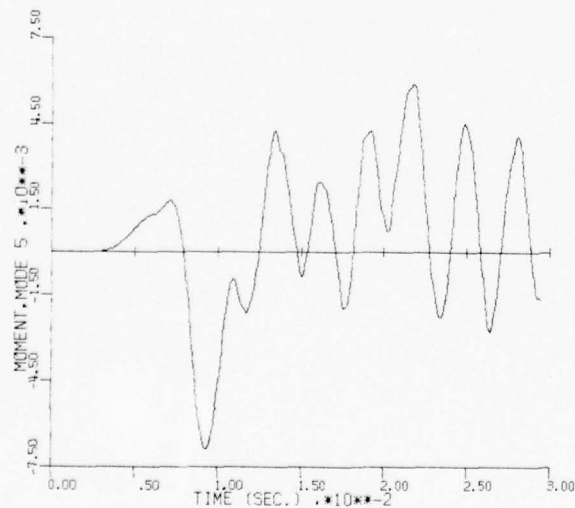




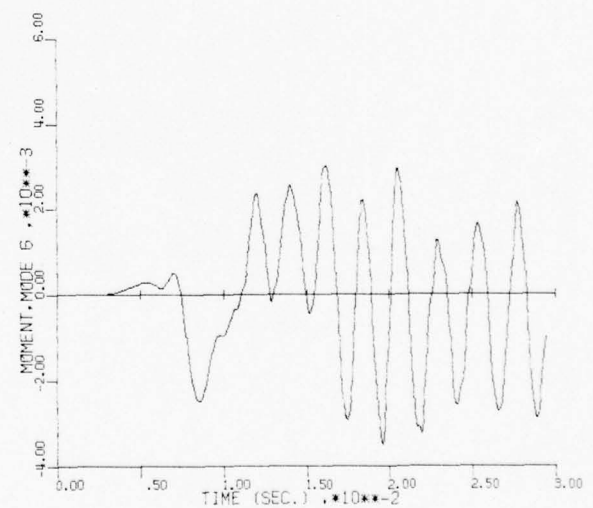
CASE5A  
MIN.-MAX. = -.34196E-01 .31349E-01



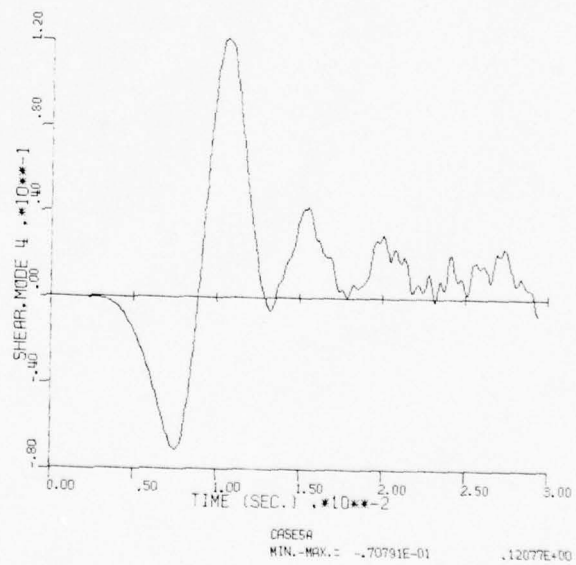
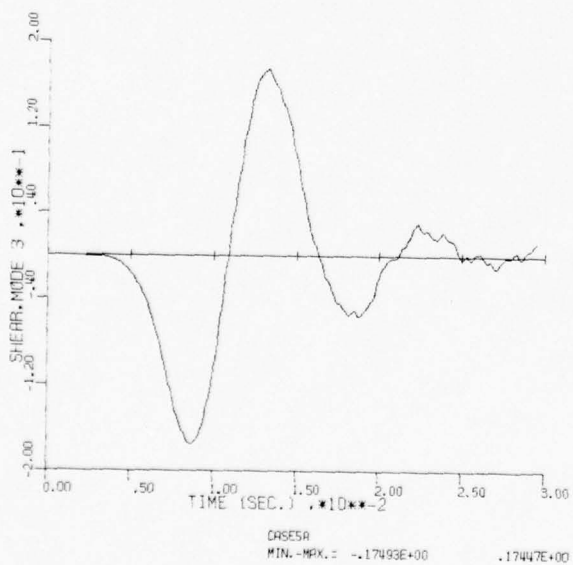
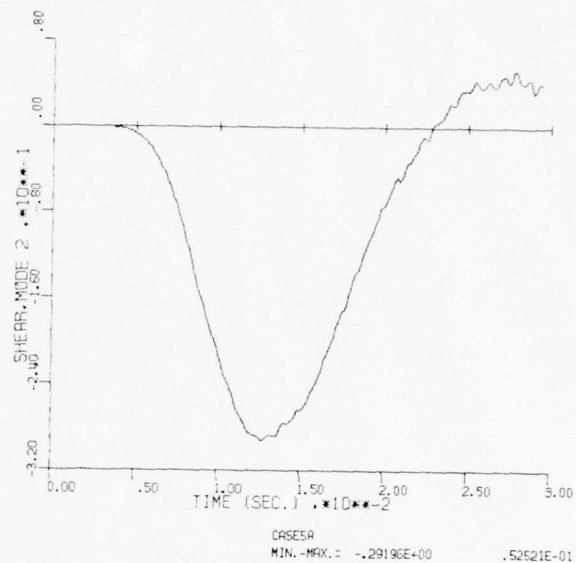
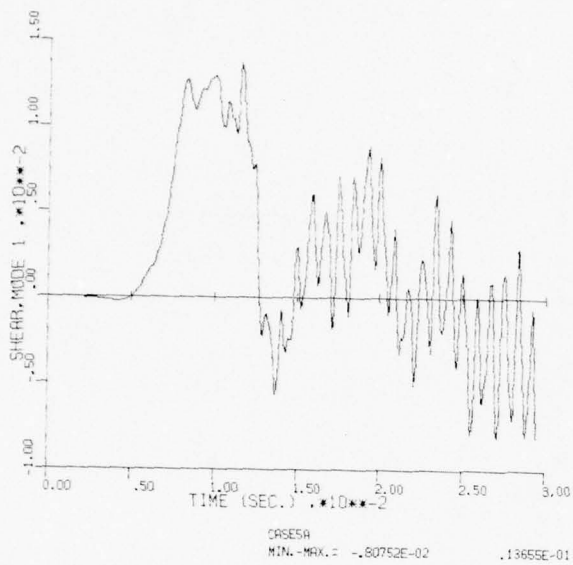
CASE5A  
MIN.-MAX. = -.16836E-01 .62971E-02



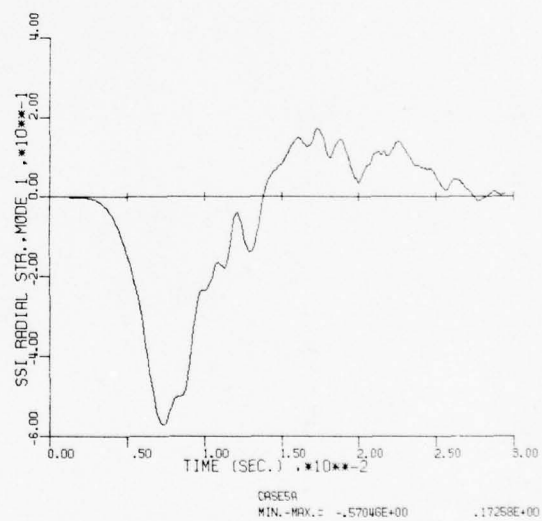
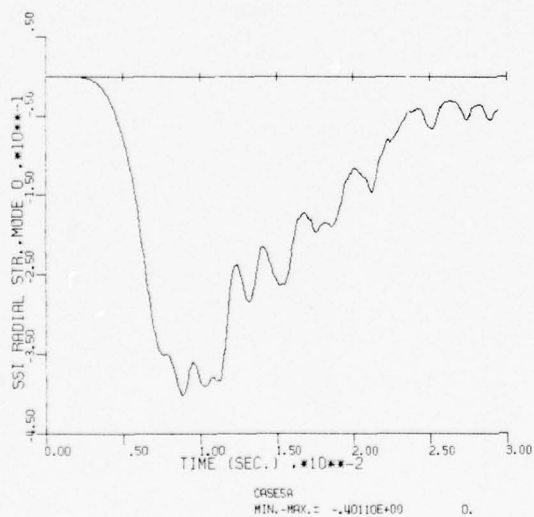
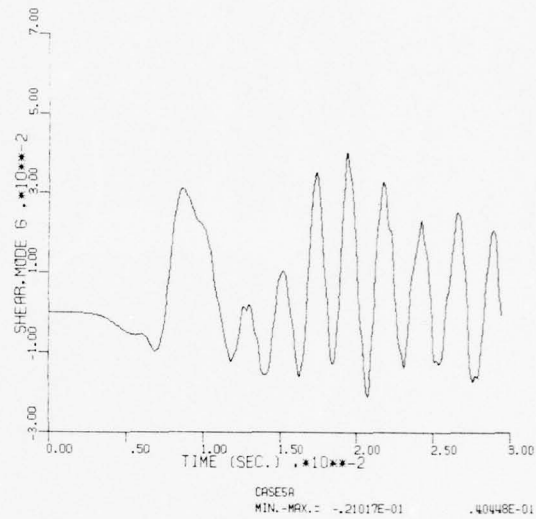
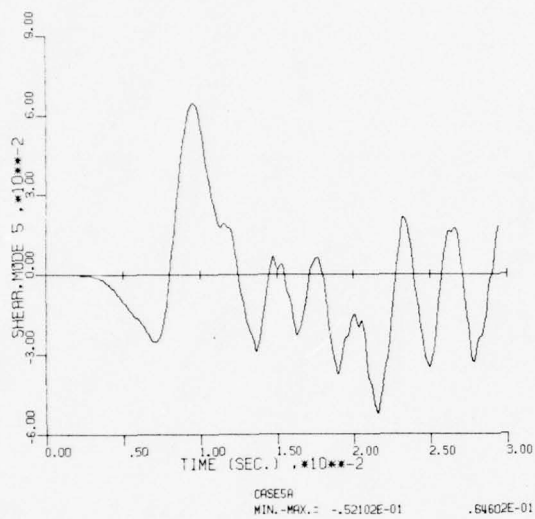
CASE5A  
MIN.-MAX. = -.68707E-02 .58919E-02

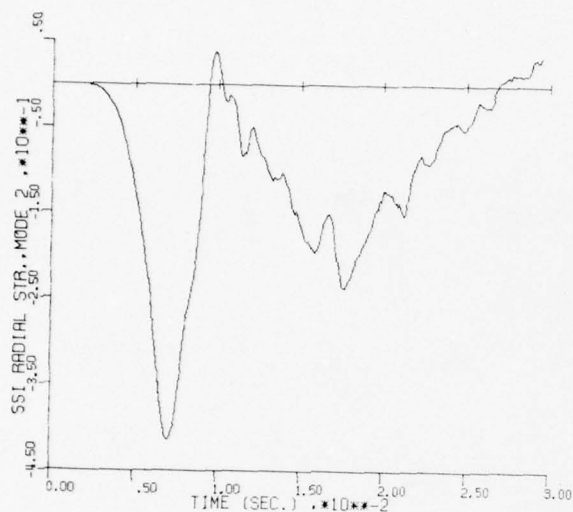


CASE5A  
MIN.-MAX. = -.34853E-02 .30055E-02

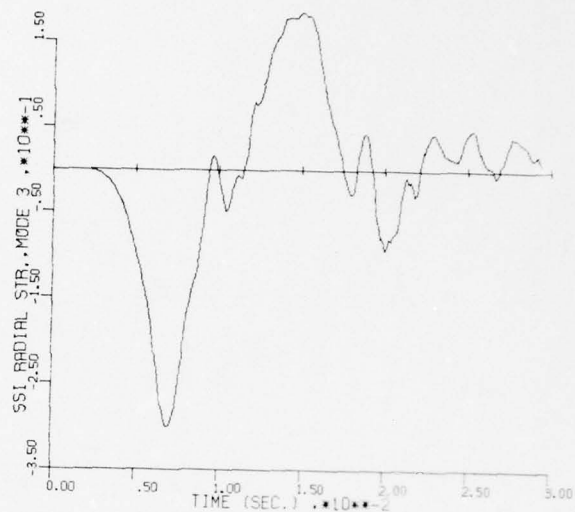




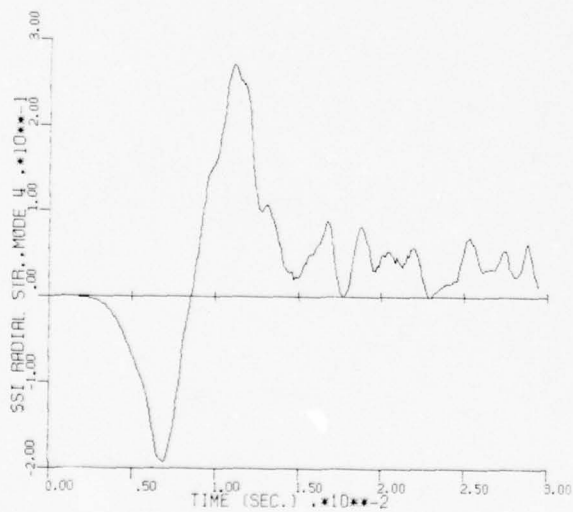




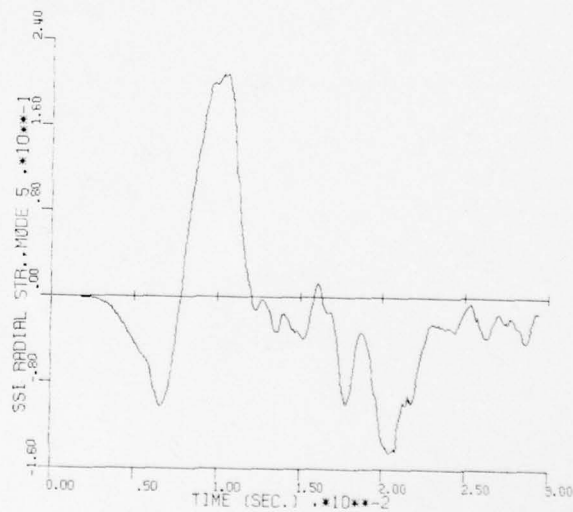
CASE5A  
MIN.-MAX. = -.4139E+00 .3709E-01



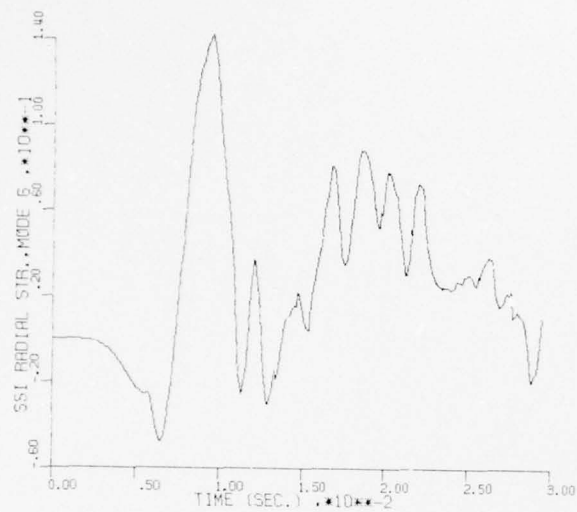
CASE5A  
MIN.-MAX. = -.3000E+00 .1837E+00



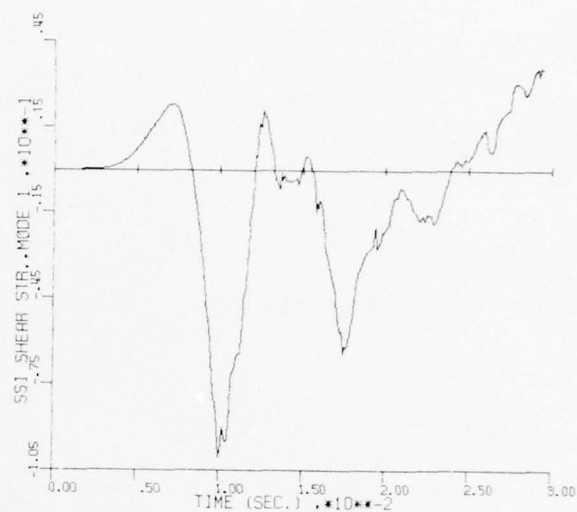
CASE5A  
MIN.-MAX. = -.1918E+00 .2692E+00



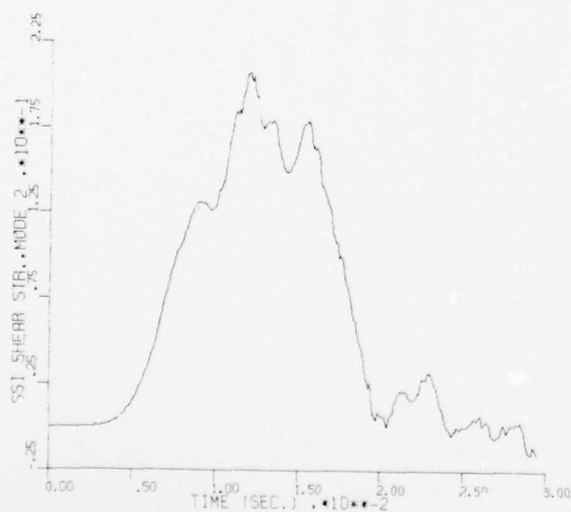
CASE5A  
MIN.-MAX. = -.1443E+00 .2080E+00



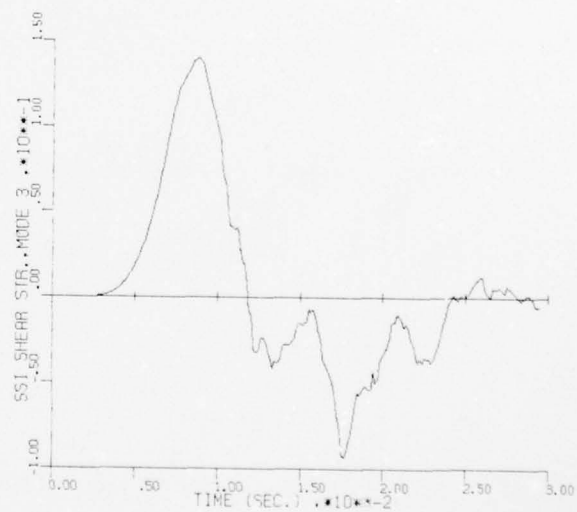
CASESA  
MIN.-MAX. = -.47654E-01 .14218E+00



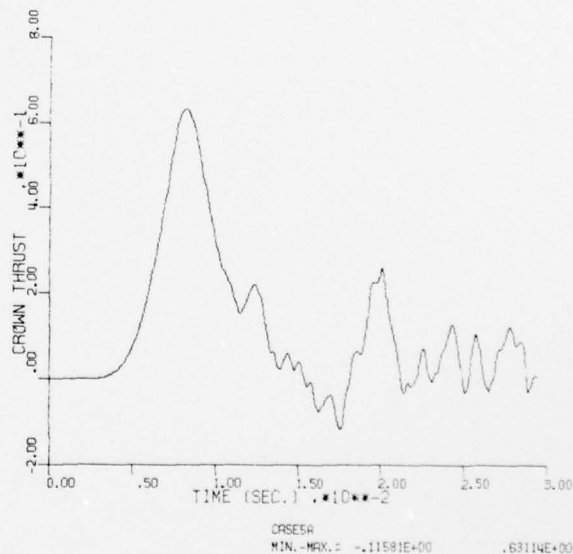
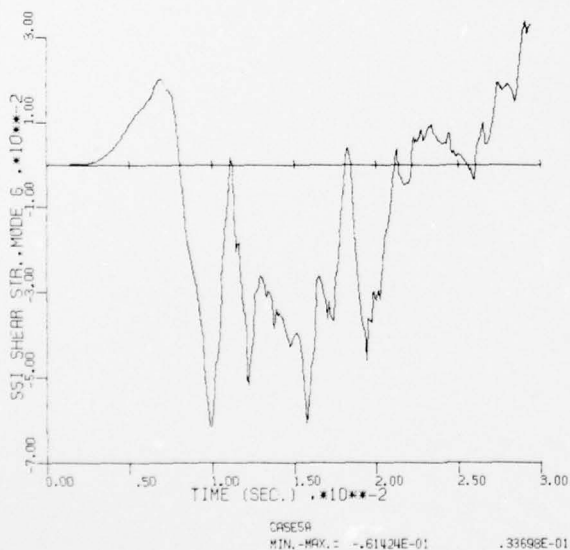
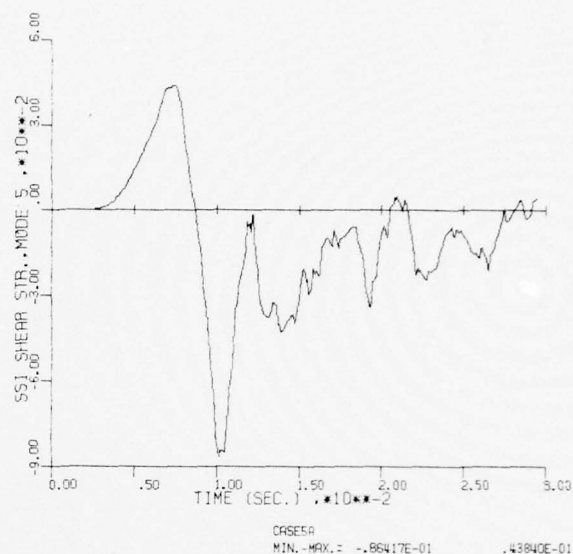
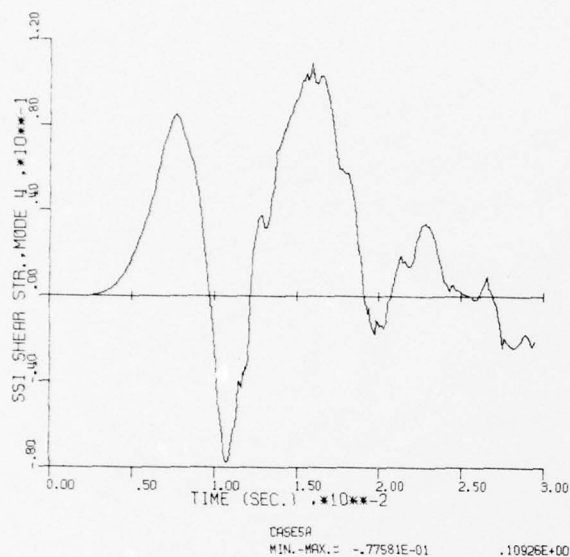
CASESA  
MIN.-MAX. = -.10030E+00 .36025E-01

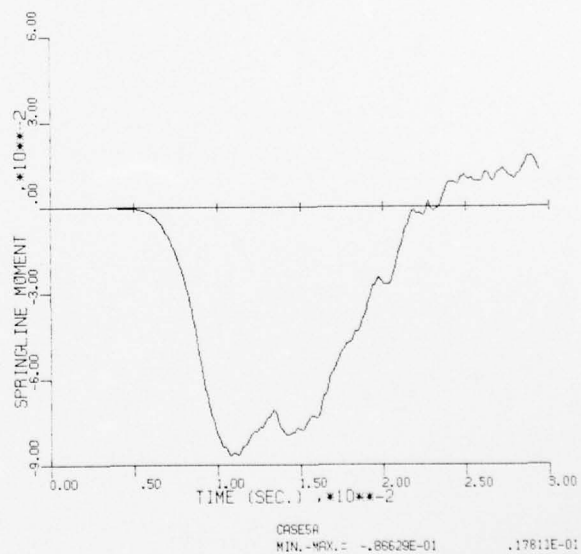
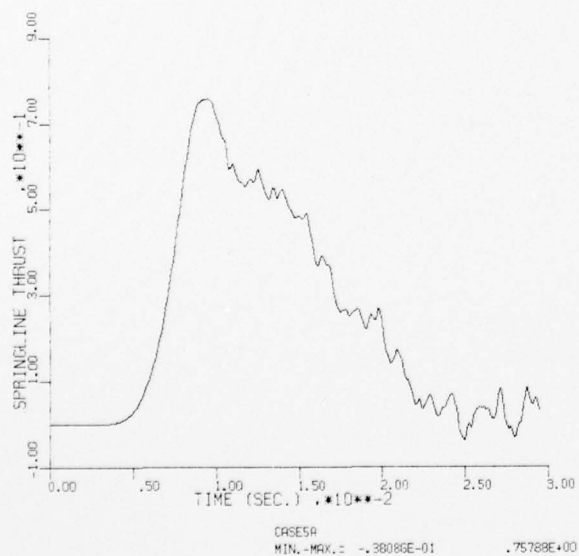
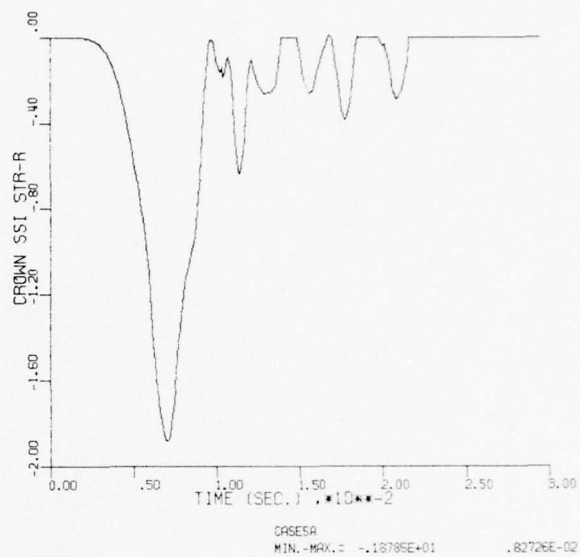
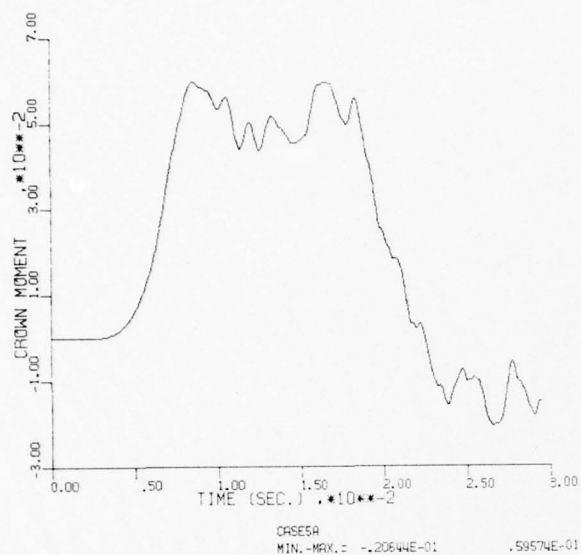


CASESA  
MIN.-MAX. = -.15017E-01 .20646E+00

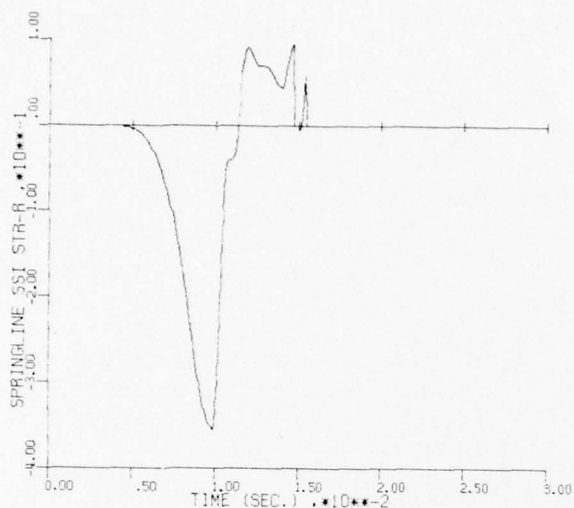


CASESA  
MIN.-MAX. = -.93037E-01 .14014E+00

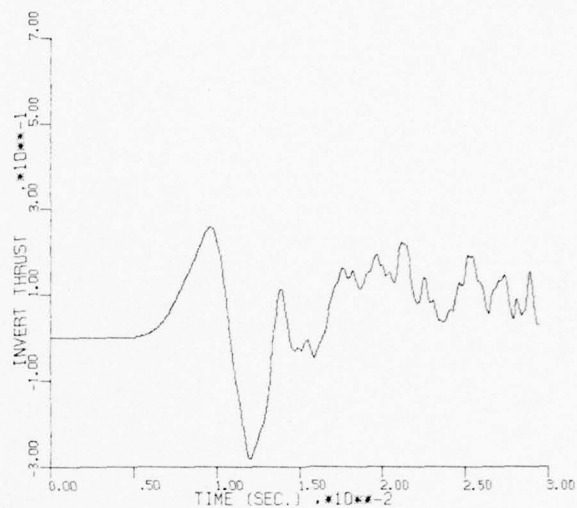




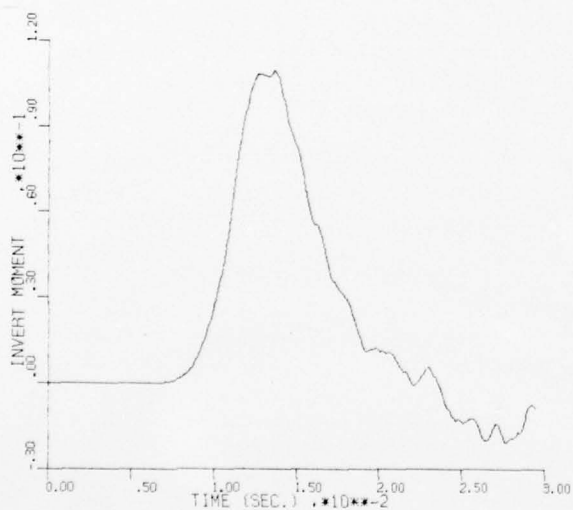




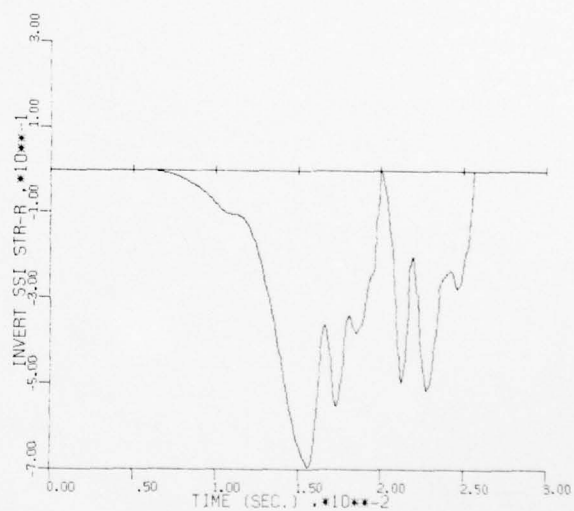
CASE5A  
MIN.-MAX. = -.35488E+00 .94565E-01



CASE5A  
MIN.-MAX. = -.28028E+00 .25968E+00



CASE5A  
MIN.-MAX. = -.20708E-01 .10956E+00



CASE5A  
MIN.-MAX. = -.69526E+00 0.

CASE 6

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MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.050124	-.0142320	-.095773	-2.558637	-.921981	-.023787
	2	-.061444	-.0124239	-.182563	-2.343910	-.759453	-.086105
	3	-.032577	-.0107263	-.267848	-1.942340	-.714536	-.040933
	4	-.023317	-.0071871	-.351765	-1.447547	-.497937	-.072993
	5	-.019608	-.0185163	-.343895	-1.000585	-.409451	-.035116
	6	-.002750	-.0316256	-.364328	-1.049218	-.463621	-.086051
	7	-.008921	-.0457443	-.339393	-.761941	-.409574	-.023464
	8	-.020612	-.0570197	-.354057	-.790260	-.442642	-.010765
	9	-.023149	-.0657304	-.326061	-.452729	-.367544	-.050114
	10	-.012466	-.0728643	-.322954	-.566715	-.386717	-.136926
	11	-.013478	-.0765948	-.233310	-.456834	-.439414	-.161096
SPR	12	-.016801	-.0806505	-.251063	-.464503	-.395231	-.204187
	13	-.014131	-.0818136	-.232191	-.503959	-.408886	-.214761
	14	-.004706	-.0953495	-.104037	-.526255	-.289591	-.241790
	15	0.000000	-.0964260	-.054522	-.635773	-.176801	-.233353
	16	0.000000	-.0863255	-.053952	-.589413	-.269244	-.238938
	17	0.000000	-.0718196	-.048201	-.670950	-.202017	-.223522
	18	0.000000	-.0477984	-.041372	-.581794	-.163521	-.238095
	19	-.023511	-.0140862	-.072831	-.607371	-.211639	-.286783
	20	-.113027	-.0054522	-.105719	-.607048	-.214874	-.274373
	21	-.224262	-.0037644	-.128741	-.602585	-.320967	-.299550
	22	-.304081	-.0035880	-.149078	-.654244	-.253130	-.195126
	23	-.374994	-.0054607	-.145783	-.777148	-.292955	-.131589
INV	24	-.391782	-.0063984	-.052852	-.797297	-.281029	-.027498

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.763988	.0567156	.020921	0.000000	.048570	.184876
	2	.743206	.0514625	.039531	.005584	0.000000	.353271
	3	.824762	.0468112	.047987	0.000000	.038041	.577741
	4	.854868	.0404154	.059770	.021790	.019964	.332603
	5	.935028	.0388575	.067087	0.000000	.051412	.412192
	6	1.050969	.0266353	.050624	0.000000	.042845	.311464
	7	1.080424	.0137248	.065577	0.000000	.037803	.340711
	8	1.083493	.0085417	.122279	0.000000	.013883	.250376
	9	1.058014	.0107861	.184231	.015609	.014121	.257426
	10	.988782	.0123717	.232940	.026922	0.000000	.233567
	11	.915785	.0119391	.286774	.032313	.022293	.234538
SPR	12	.825485	.0111061	.313416	.037013	.015711	.055403
	13	.723381	.0093584	.335407	.042141	.009063	.000000
	14	.631953	.0071467	.330073	.012479	.027517	.027752
	15	.619019	.0133397	.317000	.035272	.023985	0.000000
	16	.605990	.0207972	.308946	.034694	.021798	.002115
	17	.599922	.0281370	.315346	.009660	0.000000	.003915
	18	.543530	.0358609	.383893	.009524	0.000000	.145509
	19	.489501	.0415799	.469952	0.000000	0.000000	.179480
	20	.407485	.0470667	.459490	0.000000	0.000000	.154044
	21	.413493	.0556325	.381012	0.000000	0.000000	.201231
	22	.459893	.0792540	.317195	.002001	.063353	.090457
	23	.495904	.0955921	.248740	0.000000	.050372	.077262
INV	24	.520714	.1102596	.107925	.031006	.066568	.066757

MIN-MAX MODAL AMPLITUDES -- CASE 6

LINER THRUST PLAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.15421E+00	-.33471E+00	-.14346E+00	-.88216E-01	-.50421E-01	-.29432E-01
MAX	.60318E+00	.48274E+00	.11280E+00	.66559E-01	.34689E-01	.23199E-01
LINER MOMENT PLAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.33641E-02	-.26325E-03	-.33756E-01	-.23960E-01	-.12611E-01	-.67877E-02
MAX	.21464E-05	.85196E-03	.33963E-01	.14727E-01	.63594E-02	.61244E-02
LINER SHEAR PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.77790E-02	-.26202E+00	-.18125E+00	-.11102E+00	-.64221E-01	-.48187E-01
MAX 0.	.16561E-01	.34787E-01	.16394E+00	.15704E+00	.10243E+00	.68282E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.43576E+00	-.67103E+00	-.45368E+00	-.33239E+00	-.22886E+00	-.15417E+00
MAX 0.	.16534E+00	.57875E-01	.24904E+00	.31059E+00	.22744E+00	.14619E+00
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.76699E-01	-.42641E-01	-.33534E-01	-.60277E-01	-.72391E-01	-.39779E-01
MAX 0.	.57446E-01	.20791E+00	.13424E+00	.10694E+00	.80955E-01	.55804E-01

CASE 6

CROWN THRUST  
\*\*\*\*\*  
MODE 0  
\*\*\*\*\*  
MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
\*\*\*\*\*  
SRSS .006594 .013298 .001294 .003456 .001061 .001452 .000534  
MIN. 0.000000 .465886 .946101 .899479 1.341153 1.454142 1.182826  
MAX. .789518 1.329820 1.199580 1.015777 .942446 .932451 .947136  
INPUT  
VARIABLE  
.10234E-01  
-.50124E-01  
.76399E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0  
\*\*\*\*\*  
MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
\*\*\*\*\*  
SRSS .012191 .012095 .003476 .000474 .001000 .001341 .000558  
MIN. .236378 .200925 .595050 .959651 .927920 .937468 1.030077  
MAX. .000038 .012006 1.266547 1.222793 1.073949 1.008624 .997629  
INPUT  
VARIABLE  
.16333E-02  
-.14232E-01  
.56716E-01

CROWN SSI STR-R  
\*\*\*\*\*  
MODE 0  
\*\*\*\*\*  
MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
\*\*\*\*\*  
SRSS .003574 .001250 .002200 .000117 .001782 .000791 .002136  
MIN. .170311 .401211 .622508 .795678 .916479 .988193 1.026263  
MAX. 0.000000 .036494 0.000000 .007968 .045130 .005915 .034450  
INPUT  
VARIABLE  
.27035E-01  
-.25586E+01  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0  
\*\*\*\*\*  
MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
\*\*\*\*\*  
SRSS .007308 .007051 .000028 .000280 .001680 .001603 .000441  
MIN. 0.000000 0.000000 1.422326 1.269544 .472039 .578090 .794583  
MAX. .730700 .756363 .984636 1.014440 .976875 .989657 .985699  
INPUT  
VARIABLE  
.17493E-01  
-.16801E-01  
.82548E+00



SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .010922 .004023 .003393 .002213 .002120 .000599  
MIN. .041713 .932824 .852177 .991016 .981240 .952563  
MAX. .000193 .719760 .807948 .874673 .883022 1.070108  
INPUT  
VARIABLE  
.20388E-02  
-.80651E-01  
.11106E-01

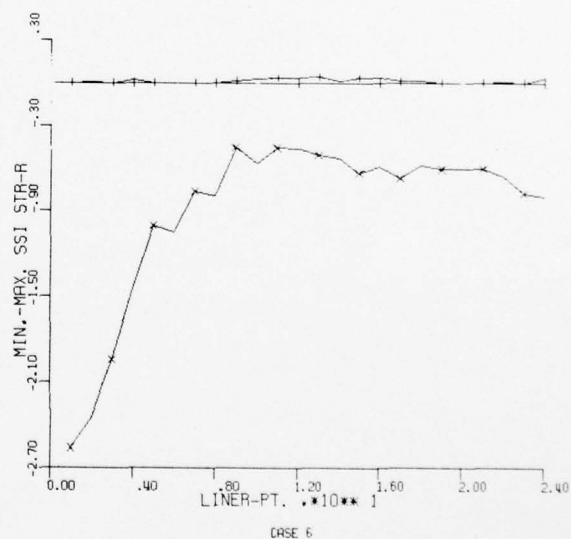
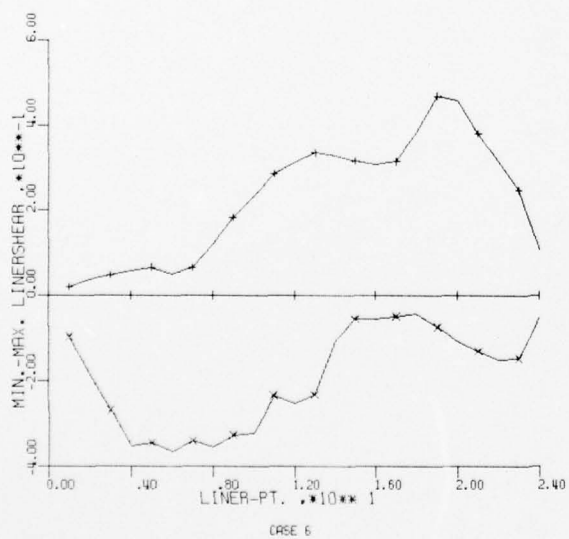
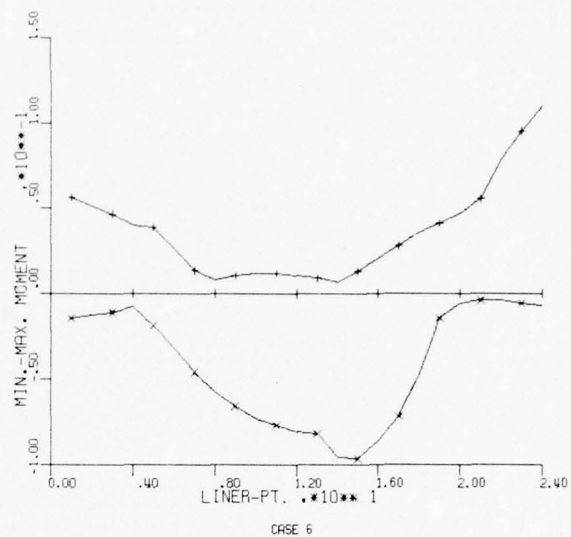
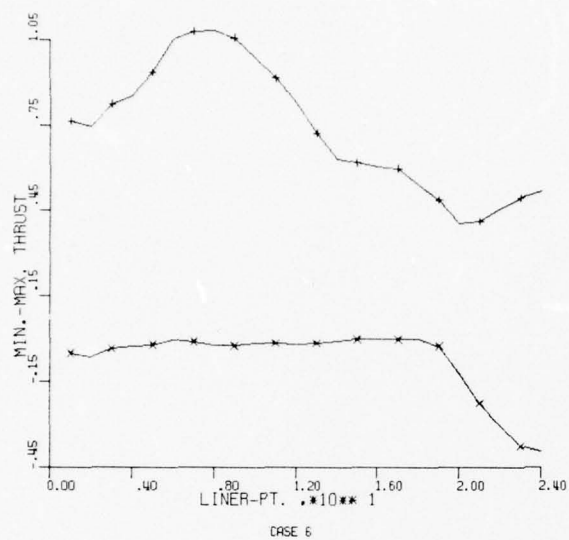
SPRINGLINE SSI STR-R  
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MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .009365 .004186 .006352 .001469 .002634 .016386  
MIN. .938130 .911382 .931044 .727041 .789899 .878413  
MAX. 0.000000 0.000000 7.079710 2.366501 1.709487 .304813  
INPUT  
VARIABLE  
.57532E-02  
-.46450E+00  
.37013E-01

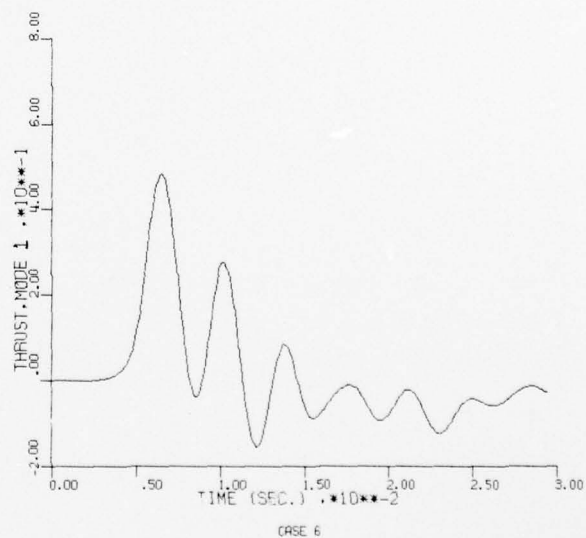
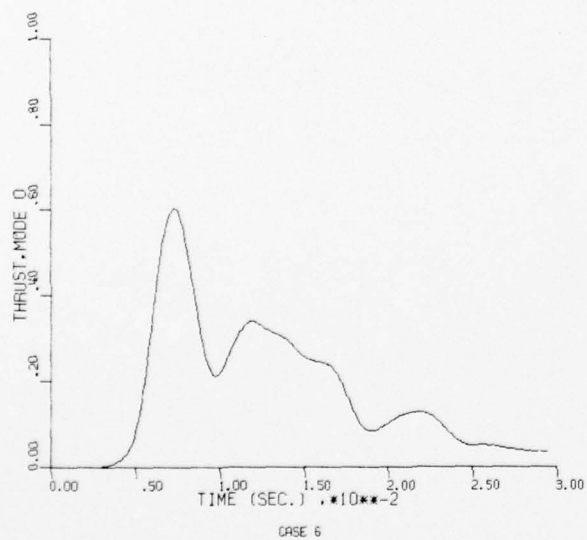
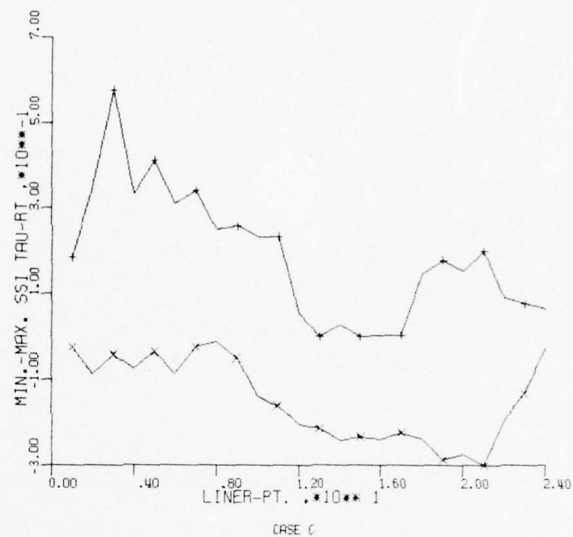
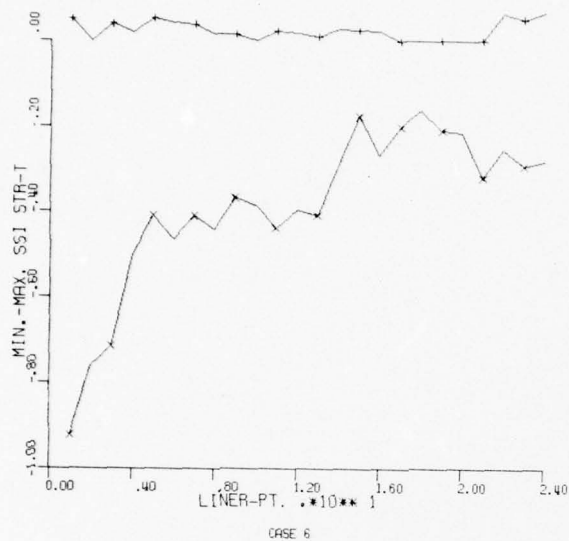
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .028150 .006469 .003964 .001189 .000737 .001565  
MIN. 0.000000 .170404 .1.010863 .987058 1.026477 1.017145  
MAX. 1.158376 .943746 .913787 1.014611 .972221 1.001772  
INPUT  
VARIABLE  
.88308E-02  
-.39178E+00  
.52071E+00

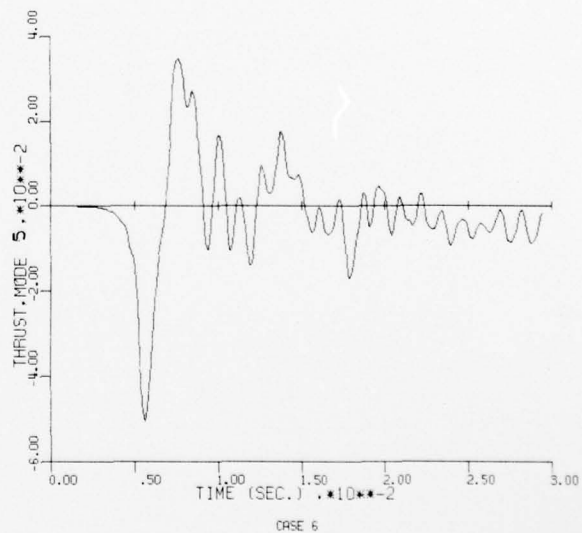
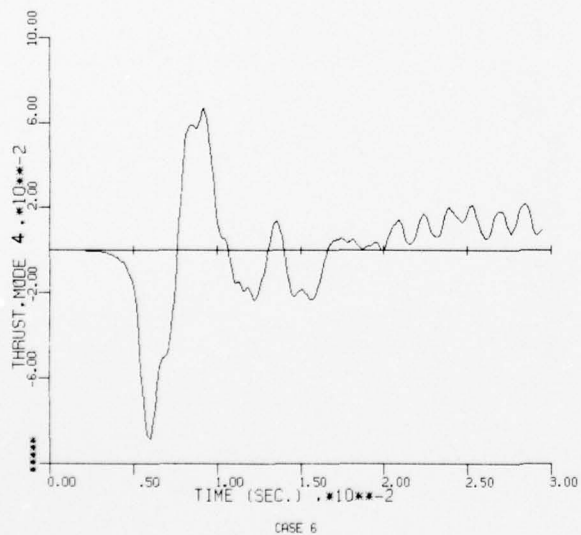
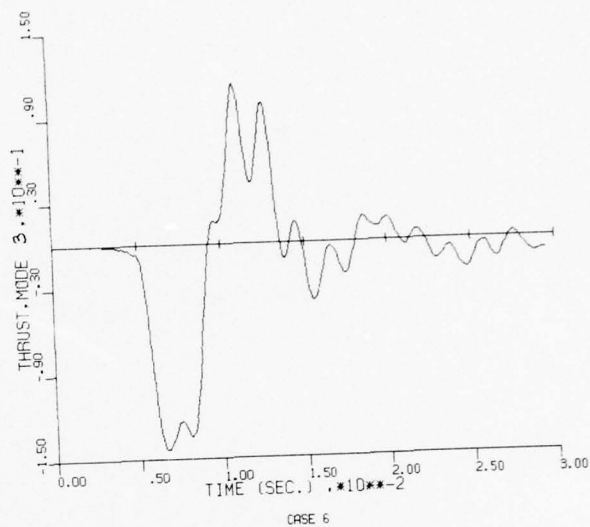
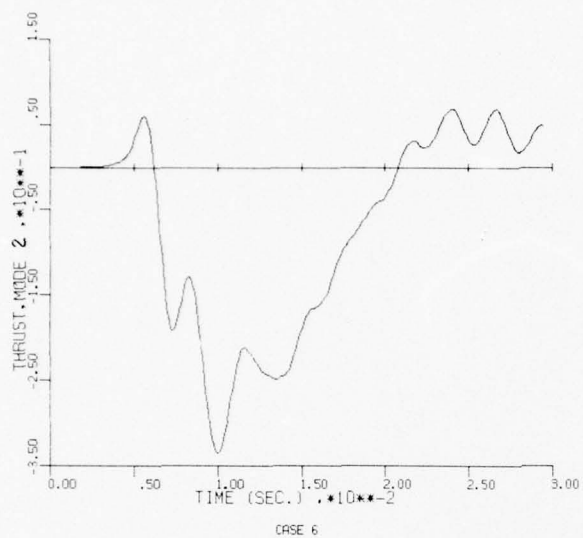
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .001934 .001803 .001319 .002484 .002215 .000714  
MIN. .525779 .005471 1.304683 1.771748 .749028 .883882  
MAX. .000019 0.000000 .649200 .995874 .942072 .945020  
INPUT  
VARIABLE  
.20663E-02  
-.63984E-02  
.11026E+00

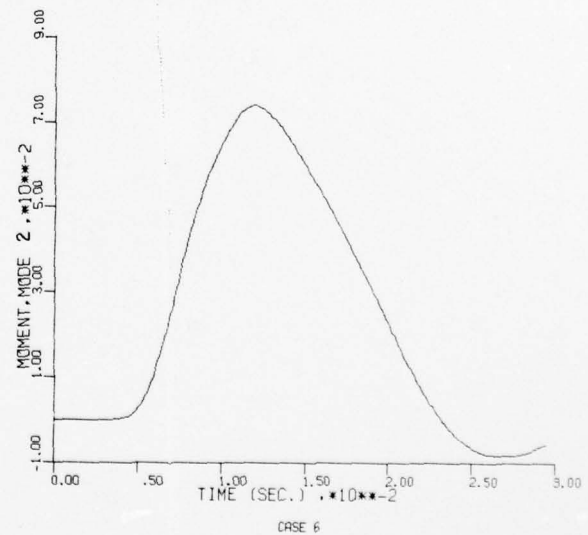
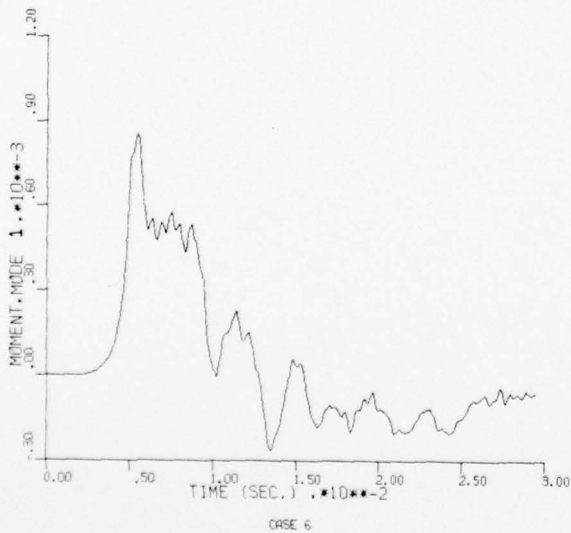
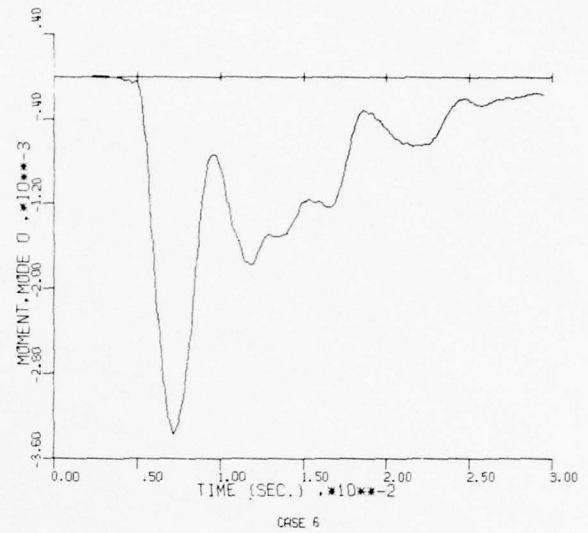
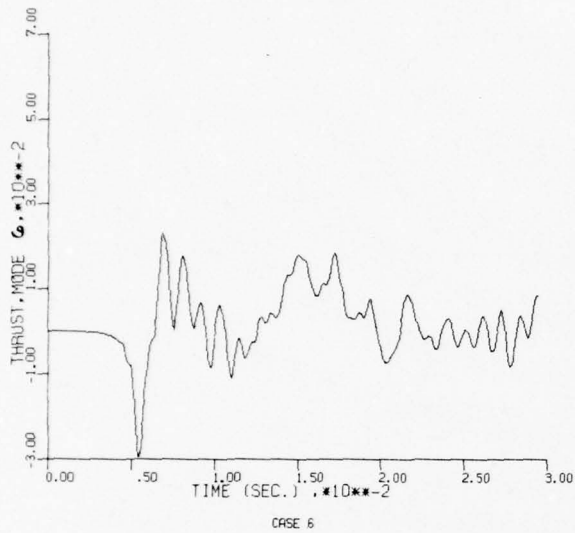
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .006438 .012330 .016510 .013512 .008878 .003606  
MIN. .546552 .521034 1.062206 1.033855 1.019541 .990023  
MAX. 0.000000 10.118496 0.000000 6.155602 3.209656 2.803803 1.772347  
INPUT  
VARIABLE  
.15006E-01  
-.79730E+00  
.31006E-01



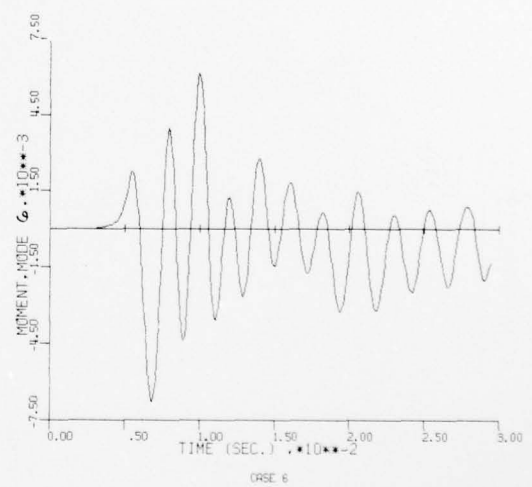
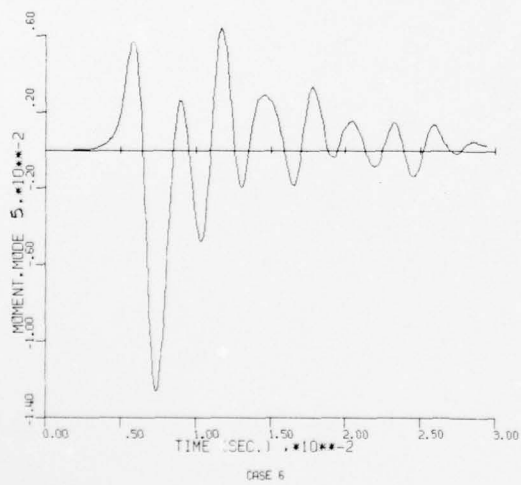
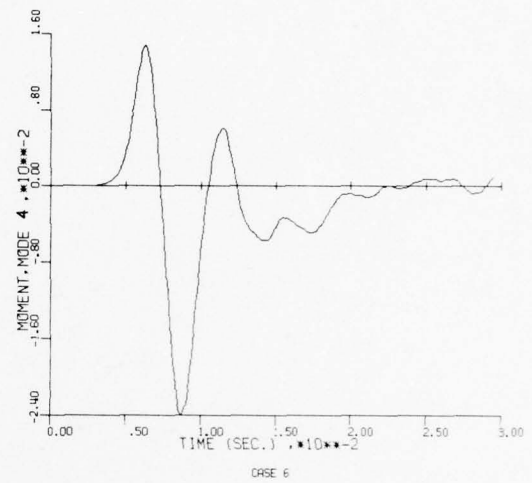
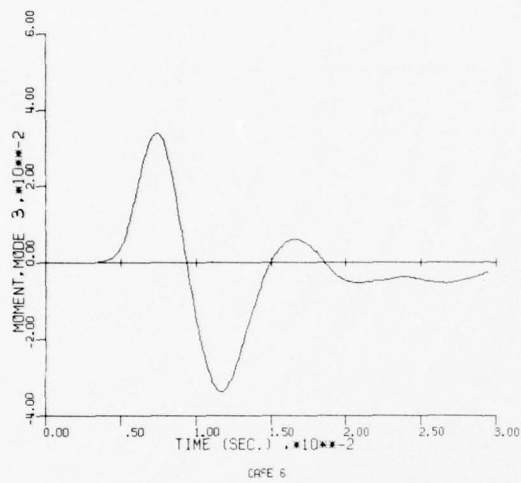




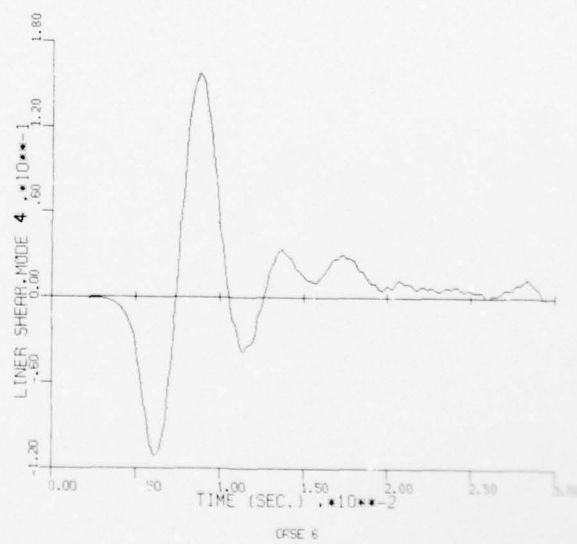
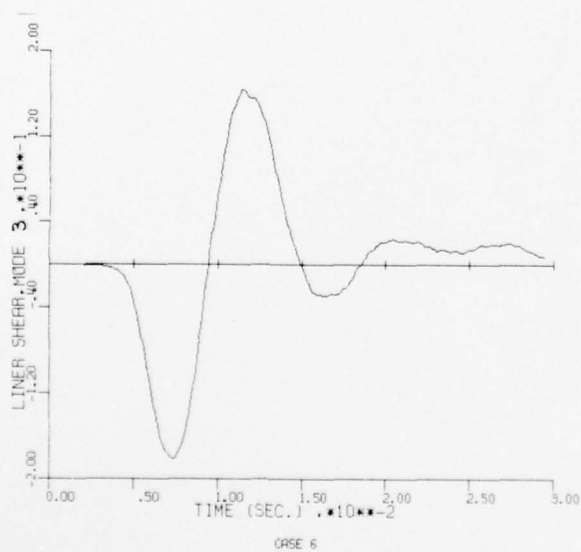
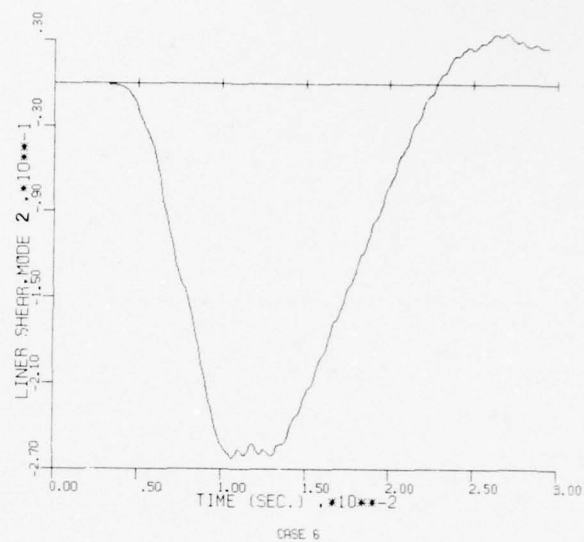
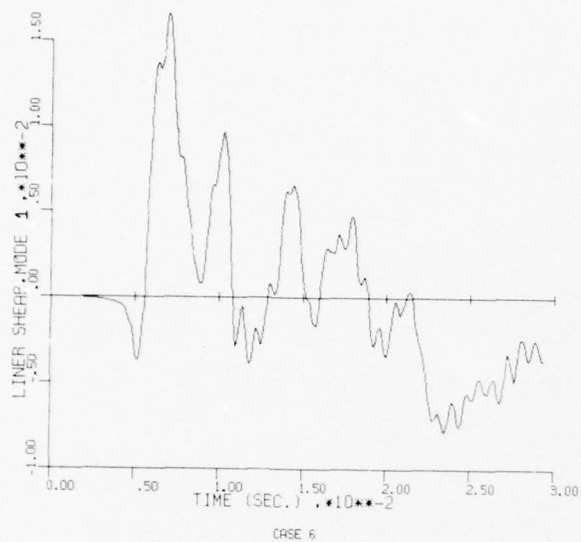




## AFWL-TR-78-6, Vol II







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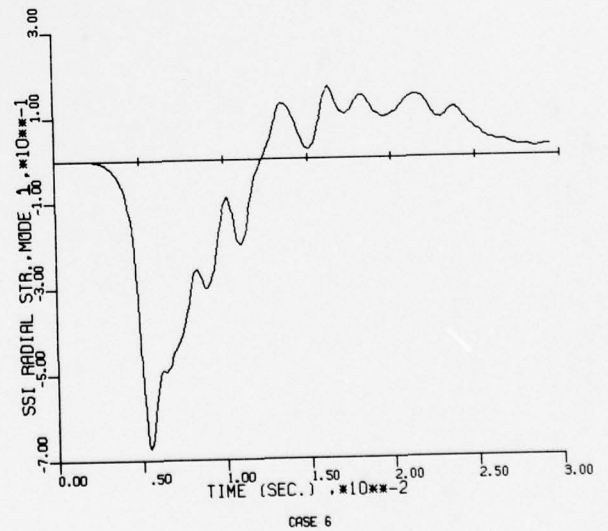
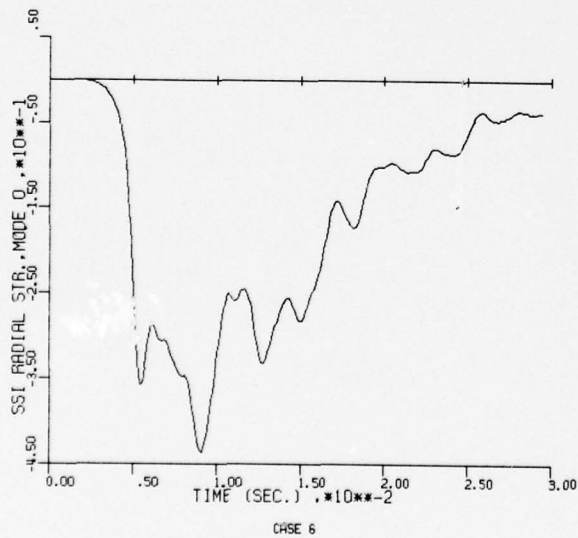
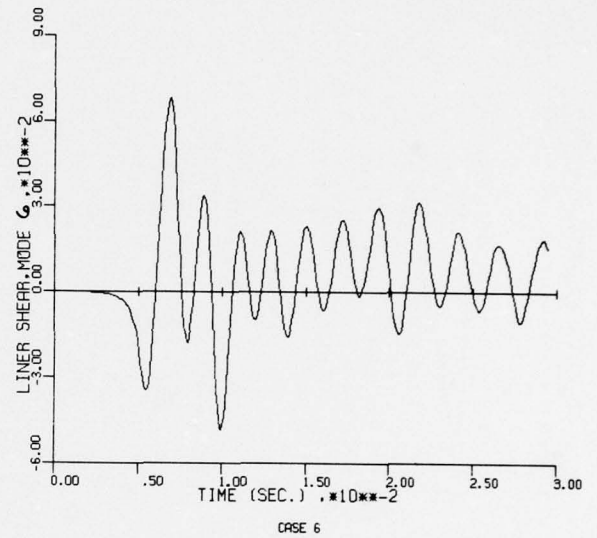
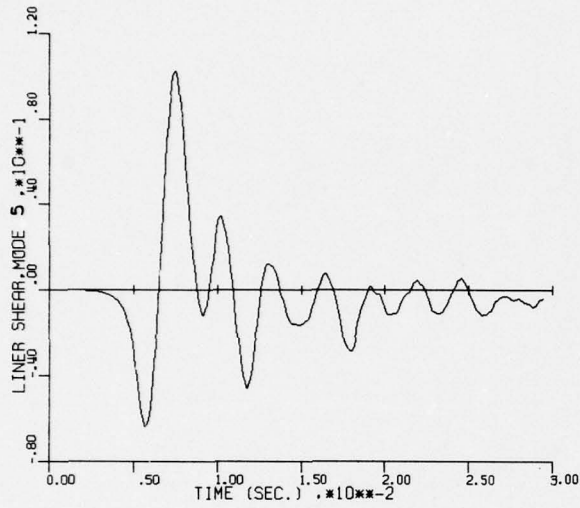
IITRI-J6378-VOL-2

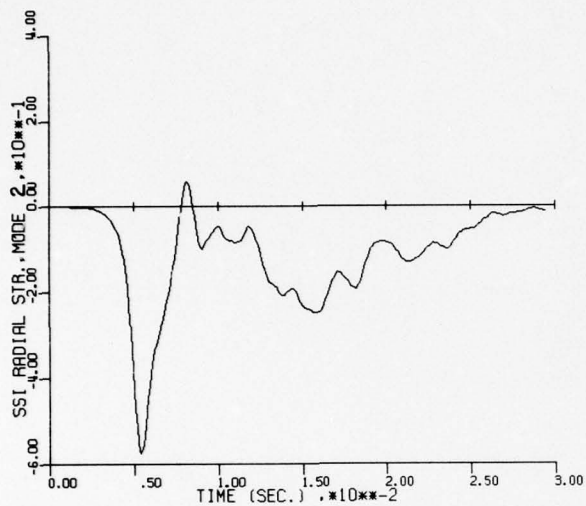
AFWL-TR-78-6-VOL-2

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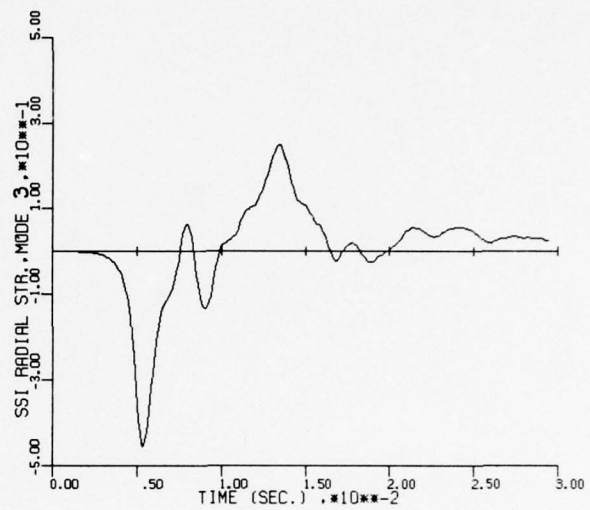
F/G 18/3

F29601-76-C-0124

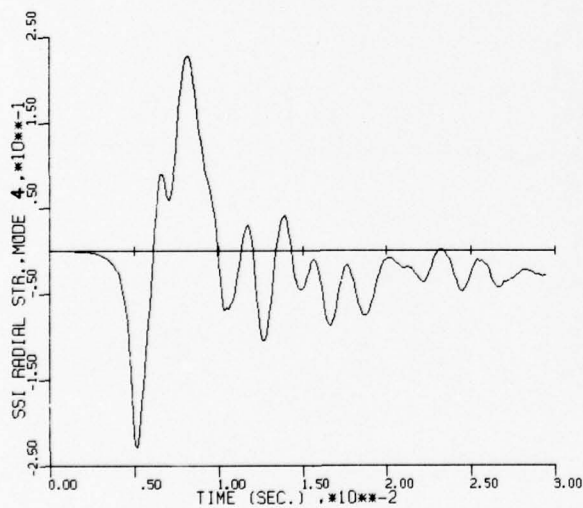




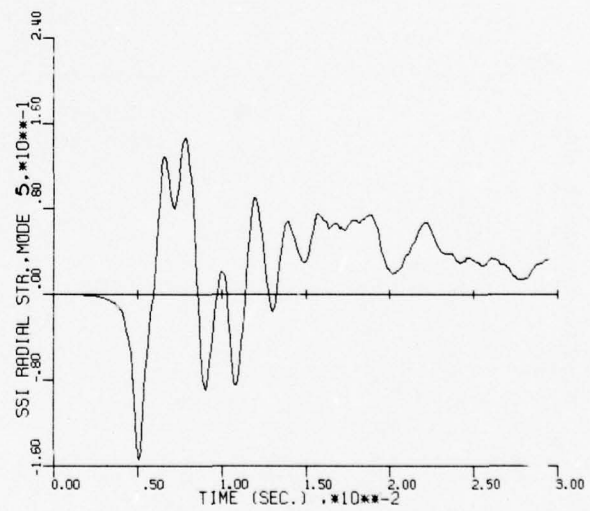
CASE 6



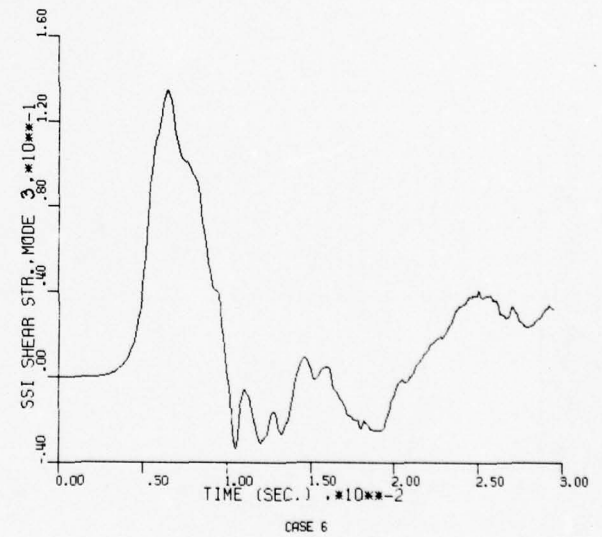
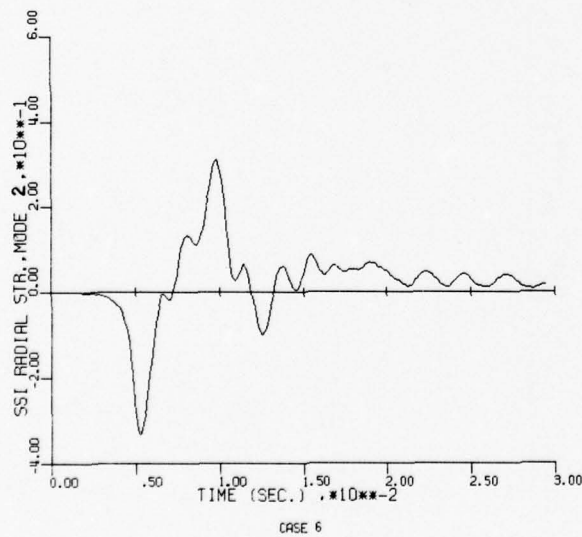
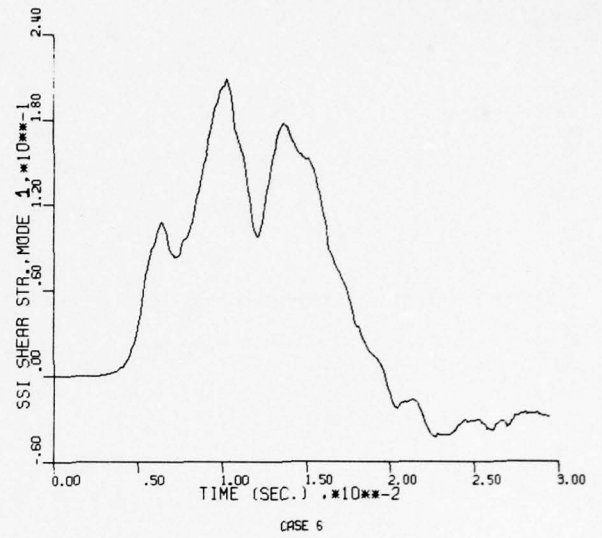
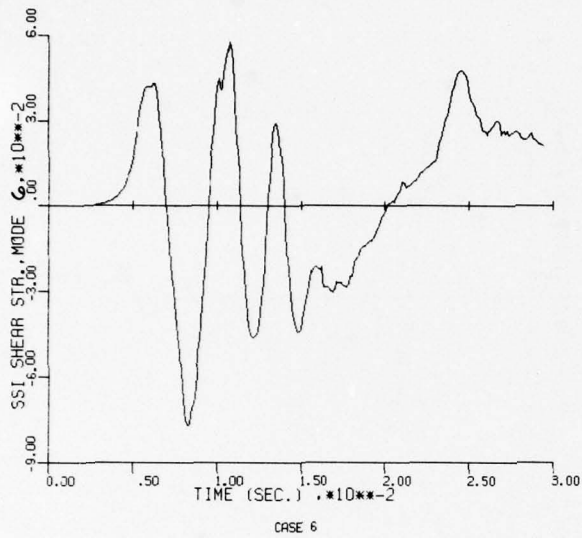
CASE 6



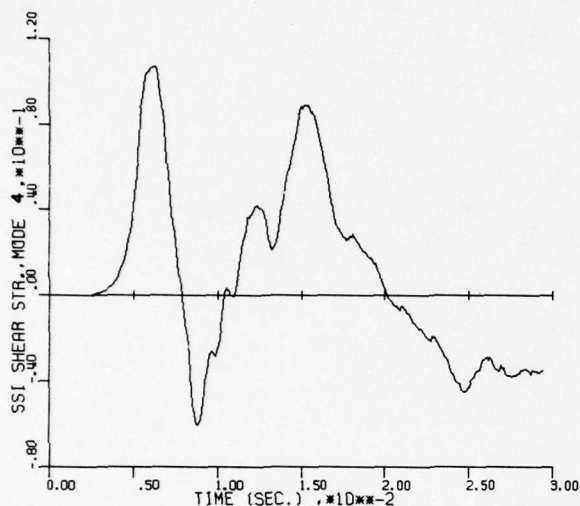
CASE 6



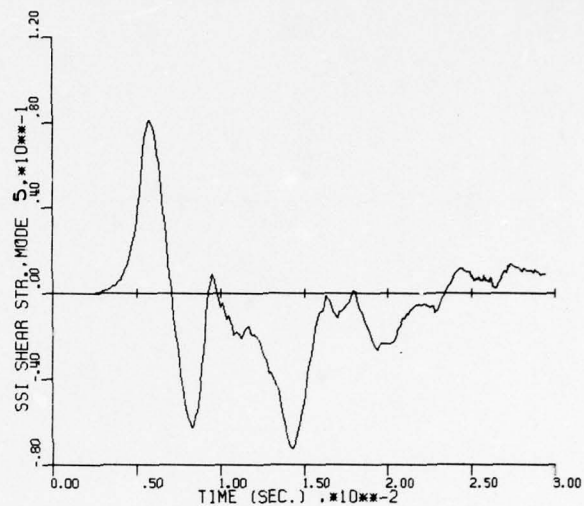
CASE 6



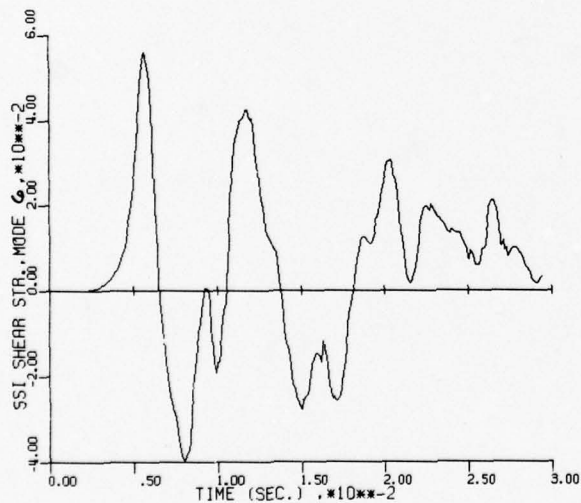




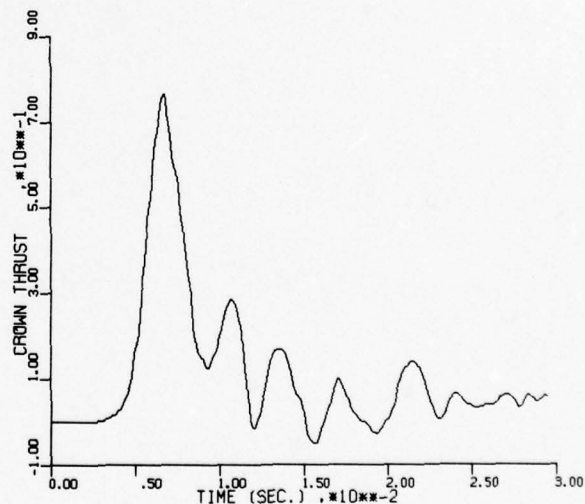
CASE 6



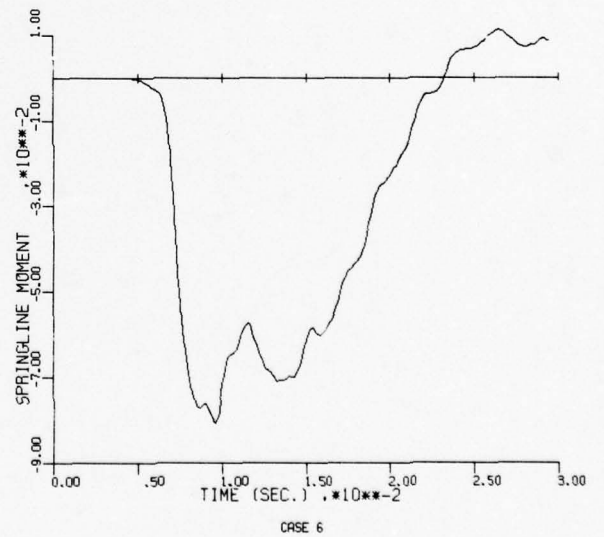
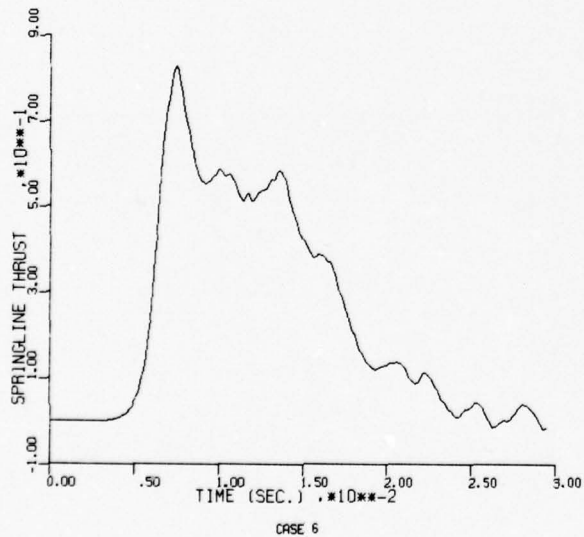
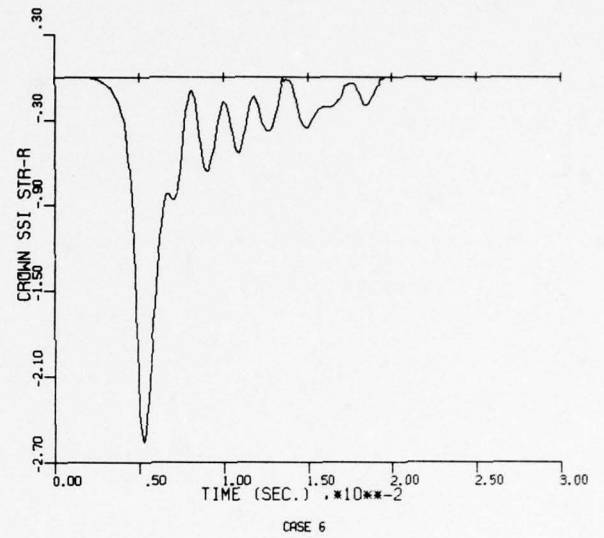
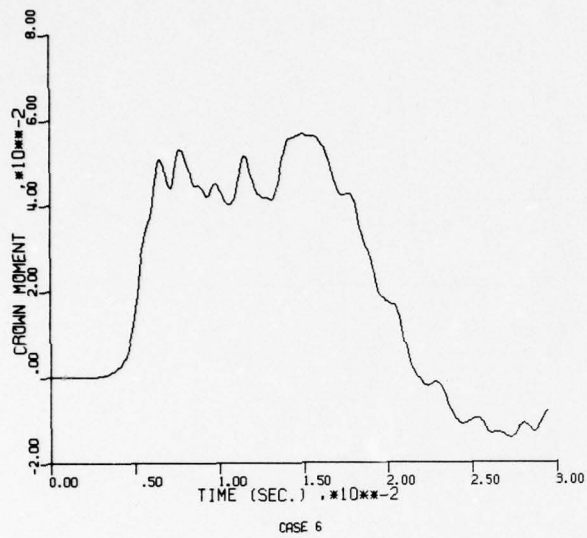
CASE 6

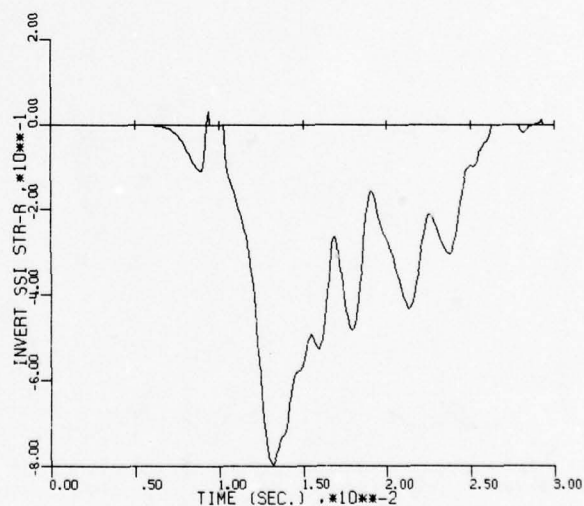
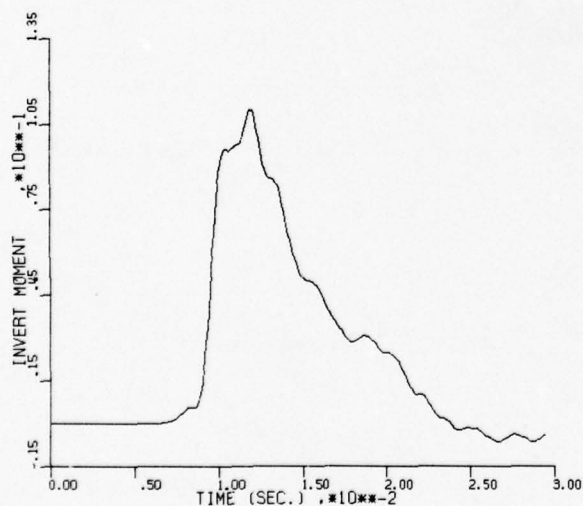
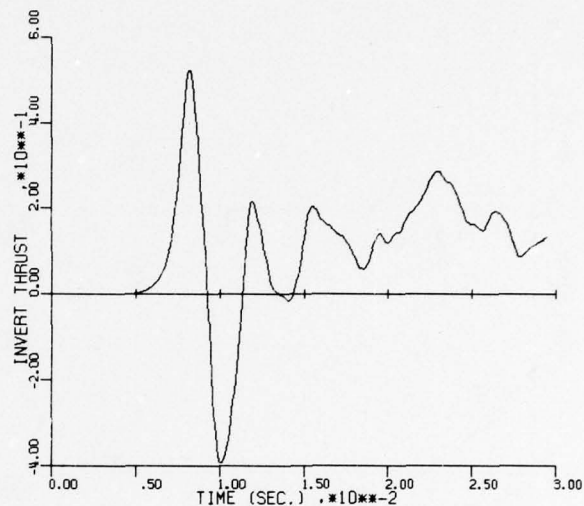
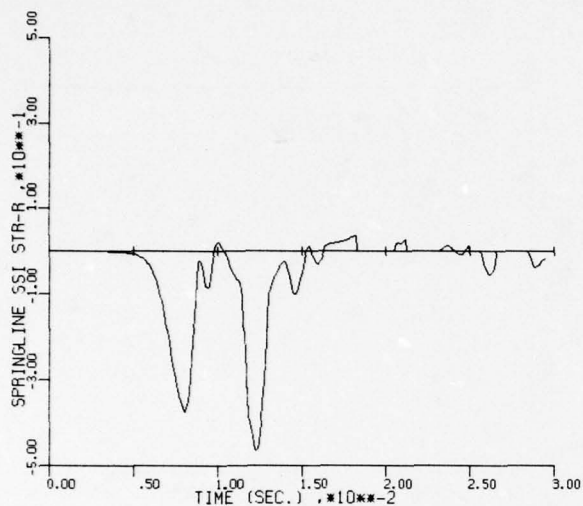


CASE 6



CASE 6





CASE 7

MIN.VALUES

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		T	M	V	STR-R	STR-T	TAU-R1
CR	1	-.093848	0.0000000	-.006147	-1.954971	-.665864	-.006359
	2	-.067387	0.0000000	-.146935	-1.855883	-.607906	-.048816
	3	-.027401	0.0000000	-.253322	-1.689940	-.638102	0.000000
	4	-.013812	-.0000427	-.330256	-1.672700	-.483321	-.096029
	5	0.000000	-.0070541	-.363902	-1.328597	-.531129	-.003864
	6	0.000000	-.0221882	-.432838	-1.263334	-.453083	-.014851
	7	0.000000	-.0399221	-.410235	-.929637	-.430502	-.035760
	8	0.000000	-.0564158	-.466514	-.876834	-.399235	-.060576
	9	0.000000	-.0711561	-.406880	-.695124	-.403249	-.027826
	10	0.000000	-.0839479	-.342397	-.619538	-.462222	-.143935
SPR	11	0.000000	-.0948136	-.275330	-.577409	-.477650	-.211619
	12	0.000000	-.1097201	-.271437	-.483511	-.457928	-.300439
	13	0.000000	-.1218014	-.140180	-.454832	-.375928	-.359714
	14	0.000000	-.1290227	-.004315	-.518876	-.490378	-.356089
	15	0.000000	-.1199560	-.000000	-.556671	-.423445	-.345252
	16	0.000000	-.1020638	-.000000	-.564823	-.268824	-.366002
	17	0.000000	-.0747485	0.000000	-.584275	-.227772	-.374699
	18	0.000000	-.0398103	-.000319	-.676602	-.391450	-.496173
	19	0.000000	-.0037980	-.002371	-1.116892	-.467381	-.489868
	20	0.000000	-.0000000	-.009361	-.911591	-.302420	-.444677
INV	21	-.006747	-.0000000	-.014440	-.911895	-.331617	-.360498
	22	-.085841	-.0000001	-.016700	-.889732	-.280866	-.347281
	23	-.152408	-.0000000	-.012856	-.918904	-.320347	-.277639
INV	24	-.183012	-.0000000	-.004664	-1.007158	-.336586	-.068967

MAX.VALUES

		T	M	V	STR-R	STR-T	TAU-R1
CR	1	.685850	.0798168	.009697	0.000000	.070169	.138787
	2	.704890	.0761440	.020519	0.000000	.102585	.356738
	3	.778719	.0696567	0.000000	0.000000	.047759	.439713
	4	.834076	.0609691	0.000000	0.000000	0.000000	.520309
	5	.921444	.0540949	0.000000	0.000000	.010997	.523079
	6	1.011768	.0385240	0.000000	0.000000	.034215	.488611
	7	1.065492	.0175067	.002267	0.000000	0.000000	.522732
	8	1.093711	.0000000	.012910	0.000000	.069381	.264491
	9	1.087032	.0000000	.060229	0.000000	0.000000	.328217
	10	1.046773	.0000000	.116826	.013927	0.000000	.218515
SPR	11	1.100446	.0000000	.178959	.009638	.006007	.324458
	12	1.131838	.0000000	.224855	.062408	.009129	.104252
	13	1.076569	.0000839	.268135	.043803	0.000000	.284112
	14	.998151	.0004752	.299879	.054377	0.000000	.128576
	15	.961172	.0018635	.314046	.053520	.020900	.352199
	16	.876466	.0046777	.402500	.063882	0.000000	.158900
	17	.875073	.0118735	.484162	.046065	0.000000	.133977
	18	.806704	.0201585	.508995	0.000000	.020633	.110461
	19	.708312	.0285359	.542324	0.000000	0.000000	.151713
	20	.671860	.0442045	.514561	0.000000	.055261	0.000000
INV	21	.616408	.0700863	.444687	0.000000	.035357	.058342
	22	.608070	.0988182	.346520	0.000000	.059310	.000000
	23	.575098	.1197801	.227829	0.000000	.095940	.010032
INV	24	.583114	.1315244	.084692	0.000000	.135718	.042551



MIN-MAX MODAL AMPLITUDES -- CASE 7

LINER THRUST PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.22201E+00	-.49608E+00	-.15655E+00	-.59722E-01	-.20414E-01
MAX	.64108E+00	.40603E+00	.10056E-01	.52145E-01	.53567E-01	.32590E-01
LINER MOMENT PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.32439E-02	-.45110E-03	0.	-.33944E-01	-.16779E-01	-.69734E-02
MAX	.18634E-05	.79395E-03	.10694E+00	.33305E-01	.80201E-02	.44233E-02
LINER SHEAR PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.24417E-01	-.41348E+00	-.19166E+00	-.70200E-01	-.33321E-01
MAX	0.	.18836E-01	0.	.15312E+00	.11592E+00	.62322E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.58838E+00	-.61705E+00	-.44182E+00	-.31994E+00	-.19997E+00	-.10051E+00
MAX	0.	.21278E+00	0.	.27058E+00	.28923E+00	.23627E+00
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.95708E-01	-.30101E-01	-.74462E-01	-.58652E-01	-.72842E-01
MAX	0.	.14548E+00	.40533E+00	.16979E+00	.16424E+00	.45424E-01
						MODE 6
						-.83203E-01
						.30548E-01



CASE 7

CROWN THRUST

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .009343    .000807    .002673    .001403    .001425    .000648    .000568
MIN.    0.00000    0.00000    1.025578    .874246    .994818    1.017156    .888016
MAX.    .931730    1.450219    1.258144    1.056398    .984057    .971114    .980363
VARIABLE *****
INPUT
VARIABLE .88576E-02
        -.93848E-01
        .68585E+00

```

CROWN MOMENT

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .019866    .019959    .006637    .000777    .000849    .000922    .001736
MIN.    -.003244    -.003440    0.000000    0.000000    0.000000    0.000000    0.000000
MAX.    .000023    .000684    1.295642    1.099270    .984938    1.018520    1.013975
VARIABLE *****
INPUT
VARIABLE .16322E-02
        0.
        .79819E-01

```

CROWN SSI STR-R

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .001937    .004022    .006393    .000382    .002158    .003673    .005232
MIN.    .300908    .552259    .729612    .887585    .981992    1.020831    1.030223
MAX.    0.000000    0.000000    0.000000    0.000000    0.000000    0.000000    0.000000
VARIABLE *****
INPUT
VARIABLE .22043E-01
        -.19550E+01
        0.

```

SPRINGLINE THRUST

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .000406    .000650    .000030    .000057    .000065    .000032    .000003
MIN.    0.000000    0.000000    -.000000    -.000001    -.000003    -.000012    -.000000
MAX.    .566410    .581831    .970168    .971821    .975367    .975527    .971052
VARIABLE *****
INPUT
VARIABLE .24077E-01
        0.
        .11318E+01

```

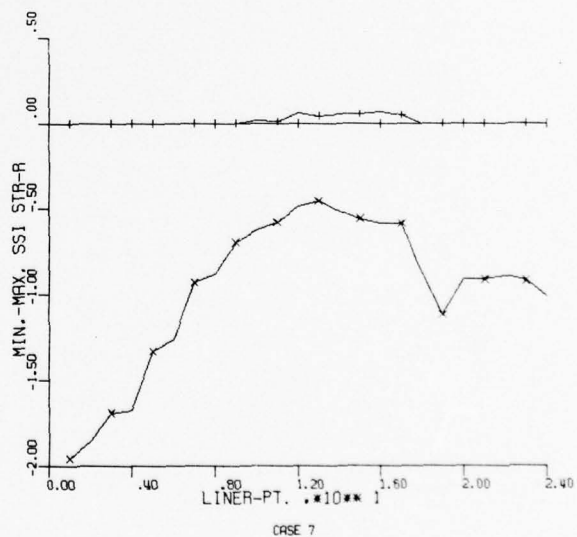
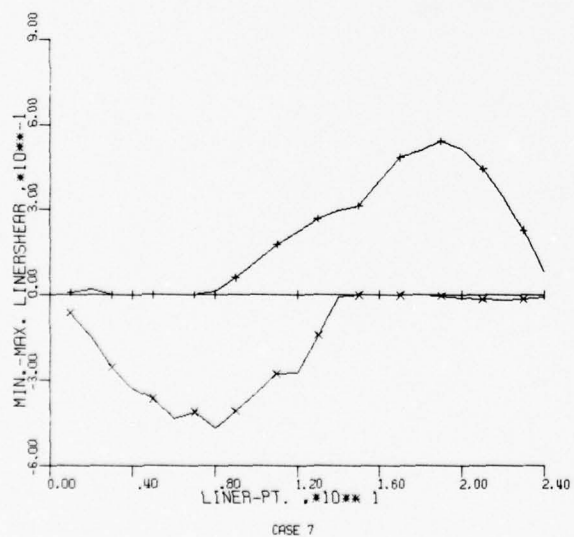
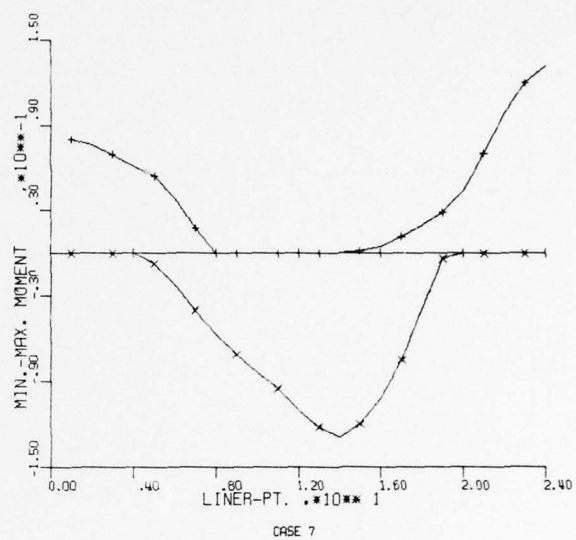
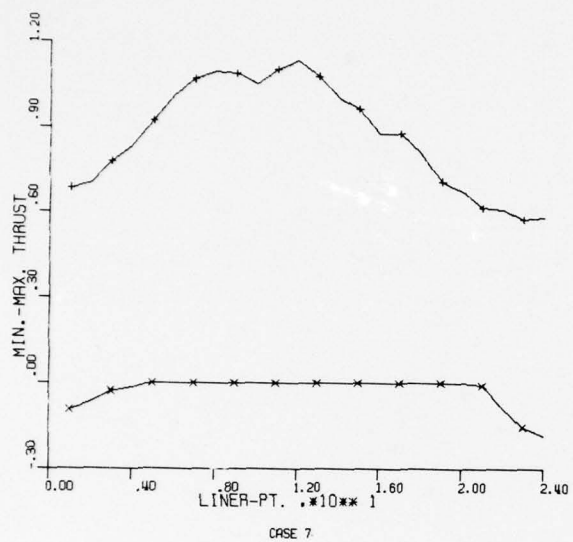
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .016662 .016658 .001523 .000515 .000564 .000580 .000024  
MIN. .029565 .029111 .992513 .941284 1.032649 1.039484 1.034812  
MAX. .000002 .000003 0.000000 0.000000 .000021 .000109 .000004  
INPUT  
VARIABLE  
.23877E-02  
-.10972E+00  
.32523E-17

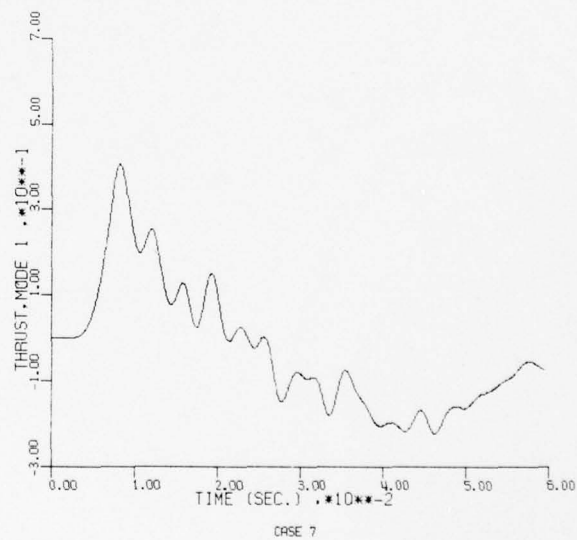
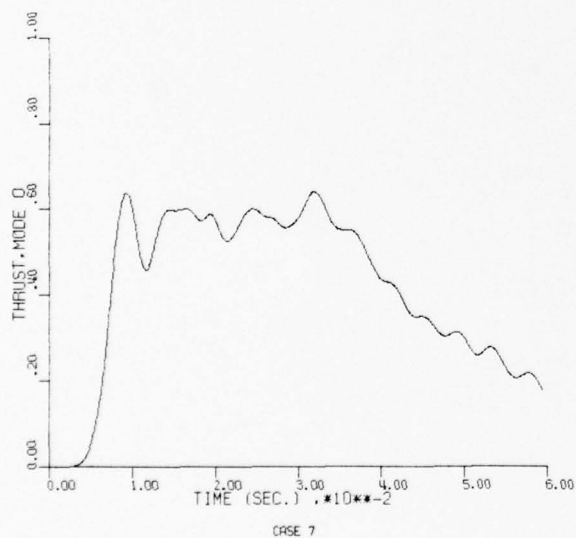
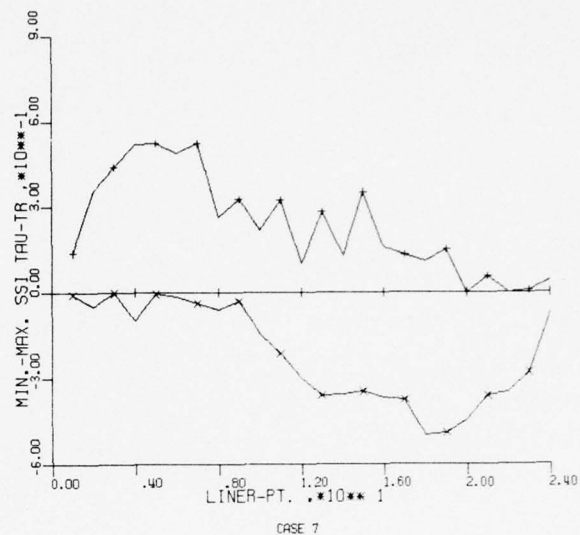
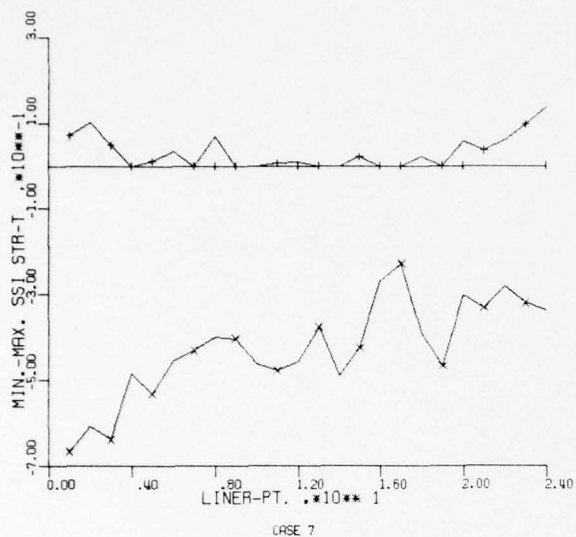
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .042534 .040872 .003028 .002305 .005251 .007439 .000810  
MIN. 1.216900 1.228464 1.000174 .987745 .709411 .728194 .824330  
MAX. 0.000000 0.000000 .948956 1.846710 .696135 1.008486 .373359  
INPUT  
VARIABLE  
.51822E-02  
-.48351E+00  
.62408E-01

INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .005447 .002794 .001279 .000248 .000230 .000401 .000336  
MIN. 0.000000 .059249 1.040218 1.078114 .975319 .999805 .997399  
MAX. 1.099415 1.327144 .999899 .985343 .953234 .974920 .995289  
INPUT  
VARIABLE  
.10909E-01  
-.18301E+00  
.58311E+00

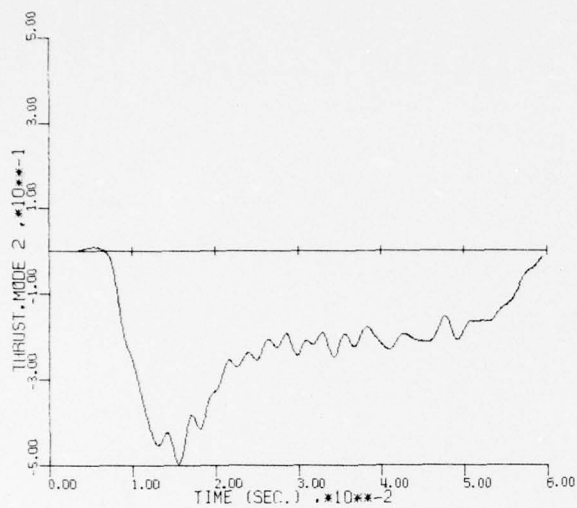
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .026072 .025999 .005132 .000685 .000629 .000686 .000047  
MIN. -.003244 -.004014 0.000000 -.005085 0.000000 -.000166 0.000000  
MAX. .000014 0.000000 .781967 1.024733 1.005520 .989597 .985133  
INPUT  
VARIABLE  
.20803E-02  
-.15500E-07  
.13152E+00

INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .019783 .013477 .002454 .004717 .002836 .004440 .002791  
MIN. .584203 .730878 .973110 1.041712 .970379 .902268 .889553  
MAX. 0.000000 .242737 0.000000 .120074 .028168 .025505 .009334  
INPUT  
VARIABLE  
.20827E-01  
-.10072E+01  
0.

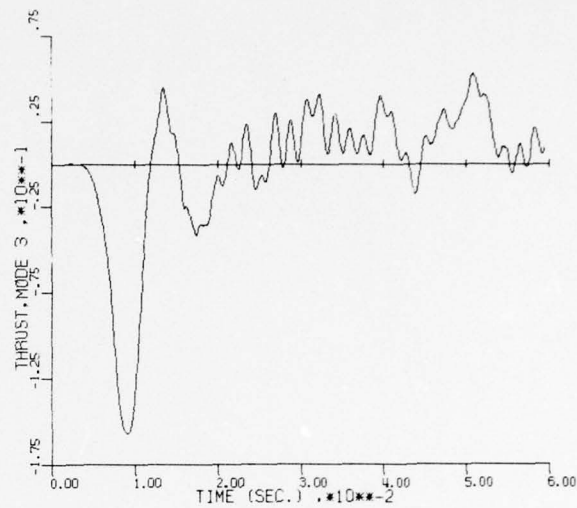




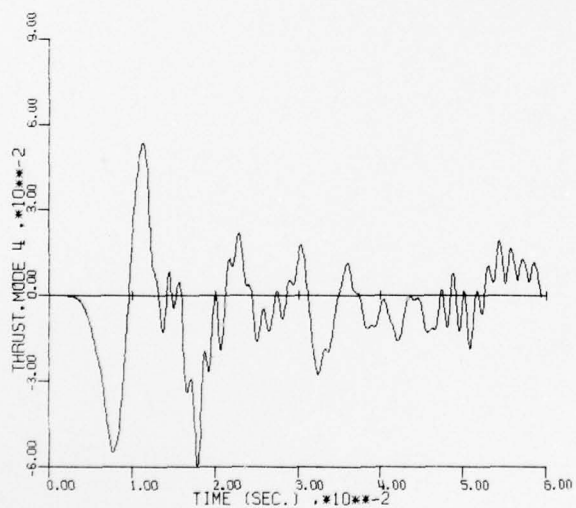




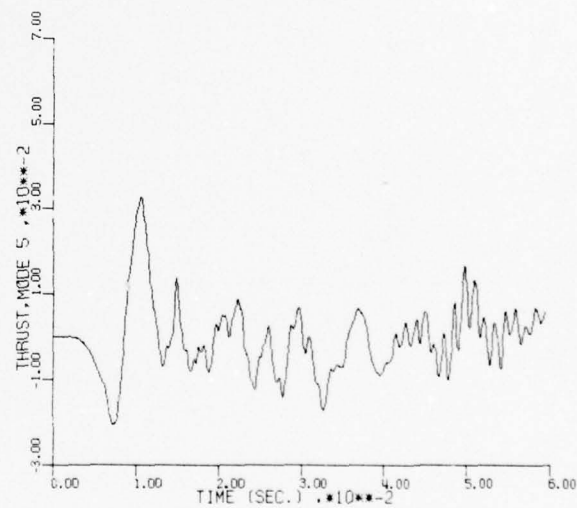
CASE 7



CASE 7

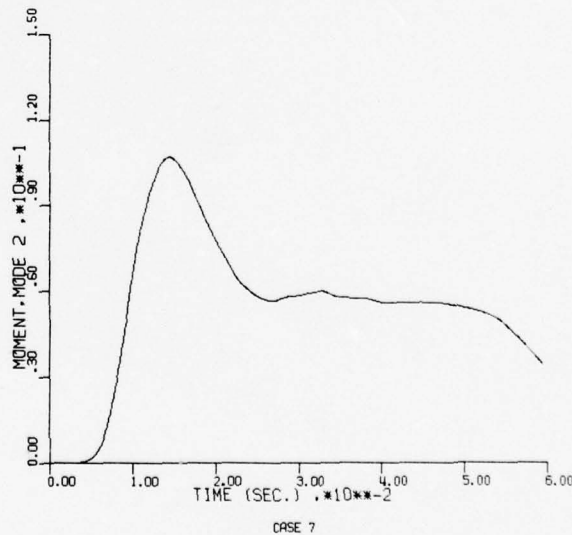
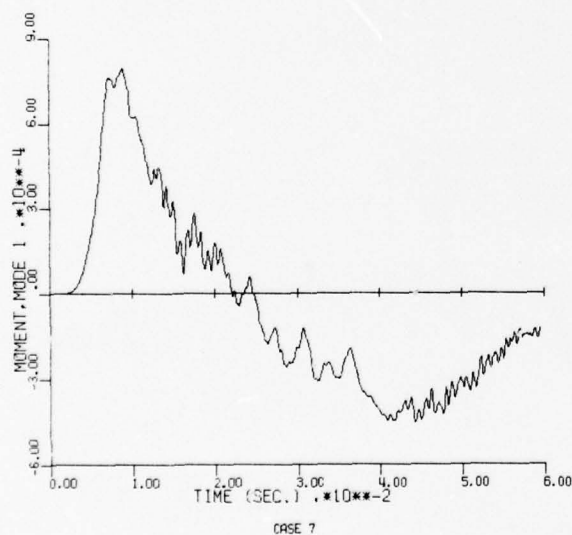
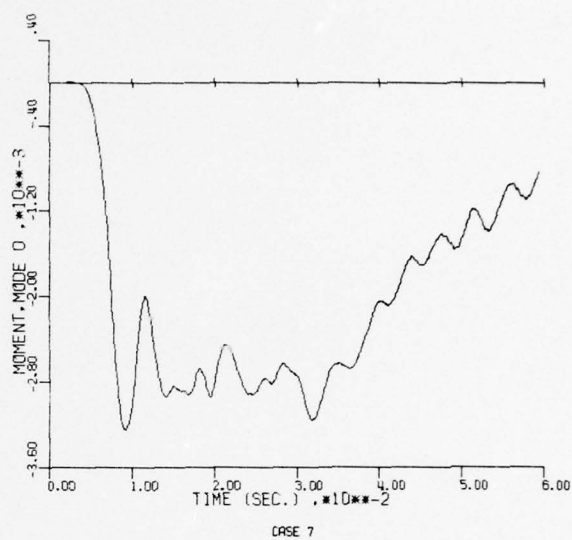
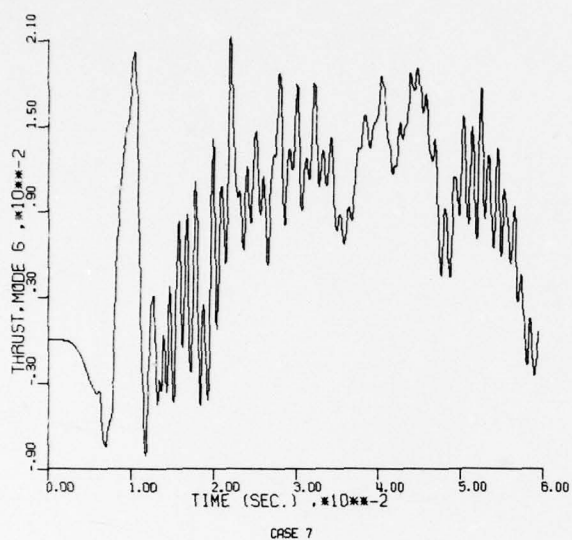


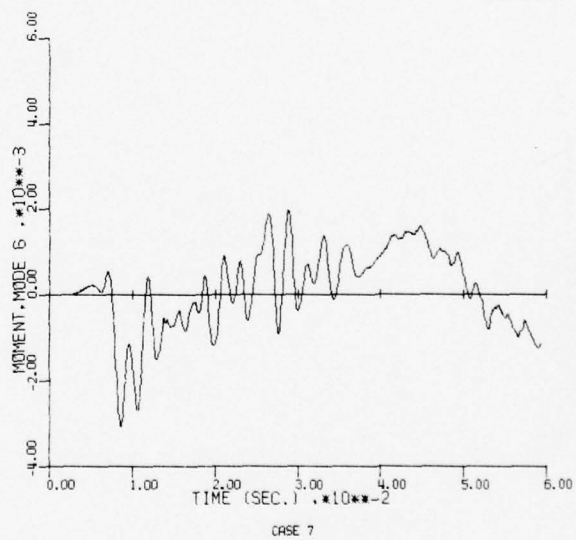
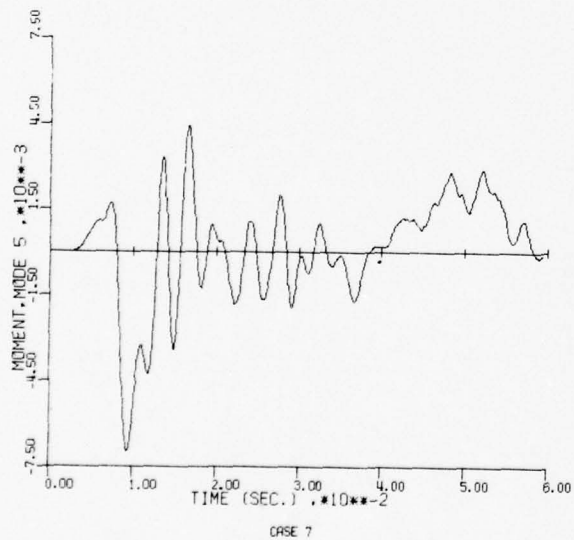
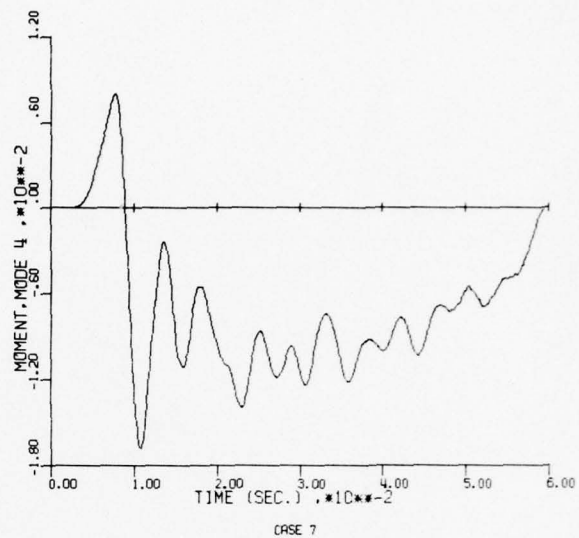
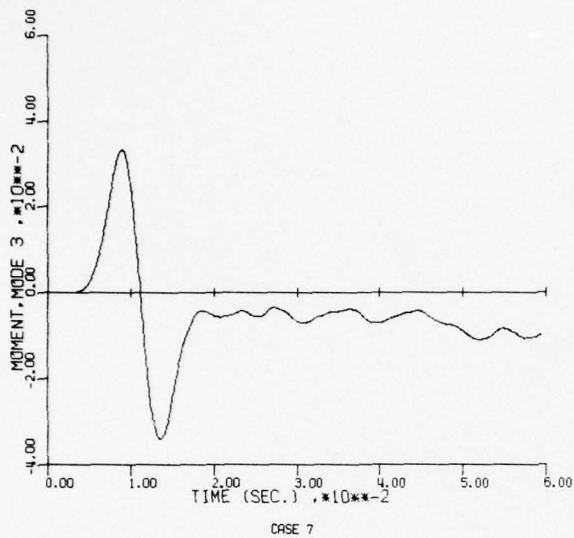
CASE 7

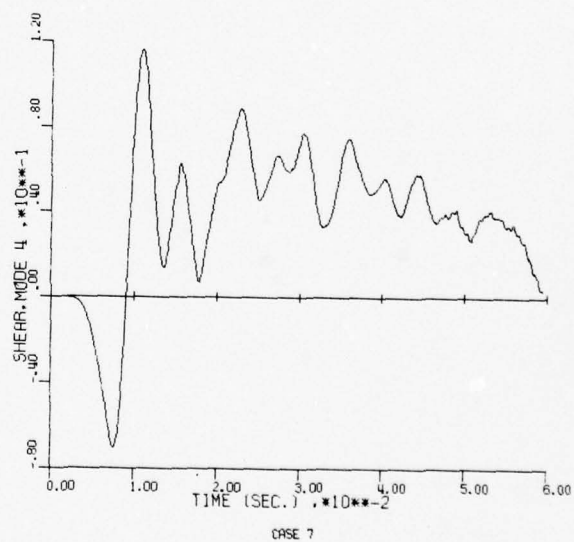
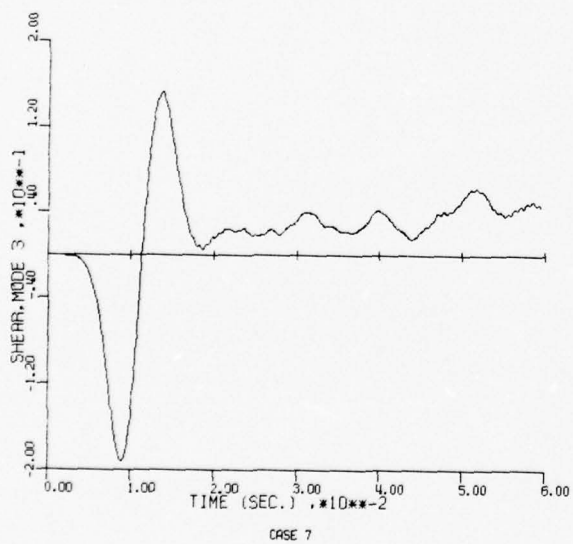
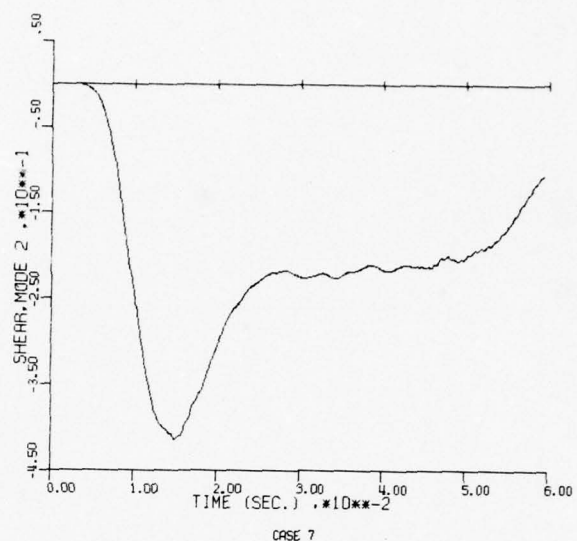
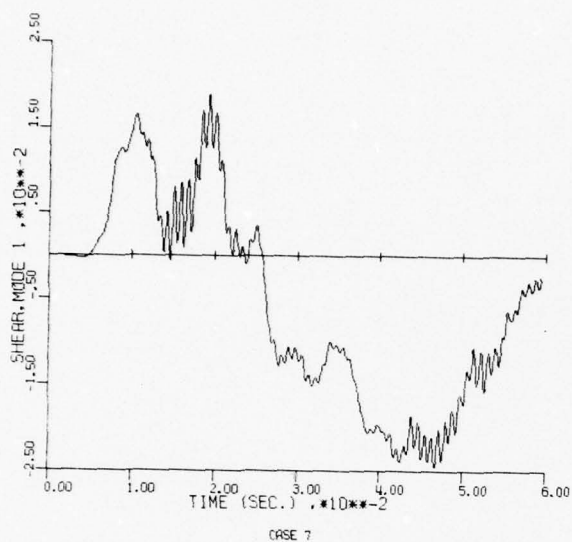


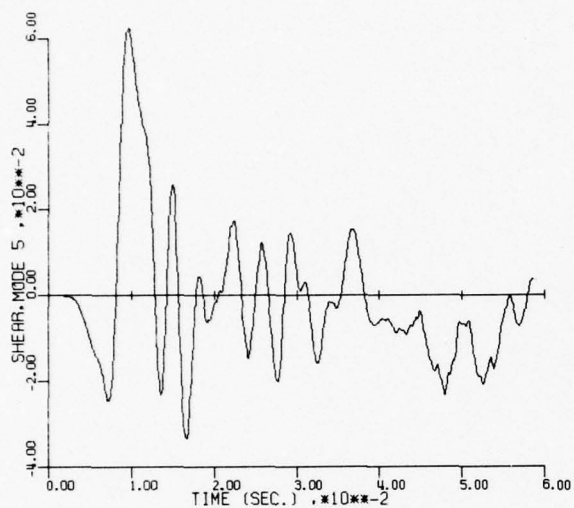
CASE 7



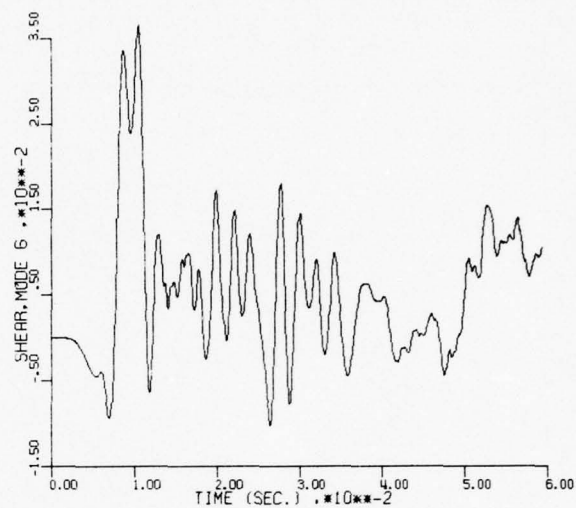




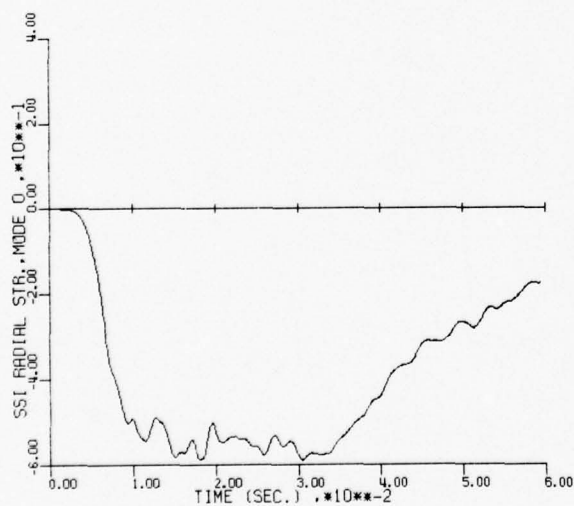




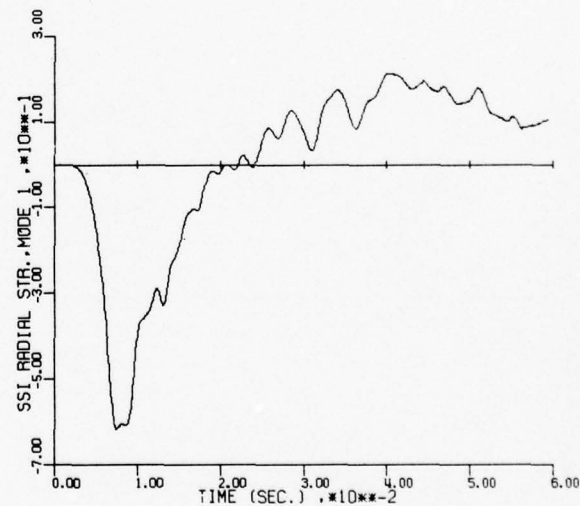
CASE 7



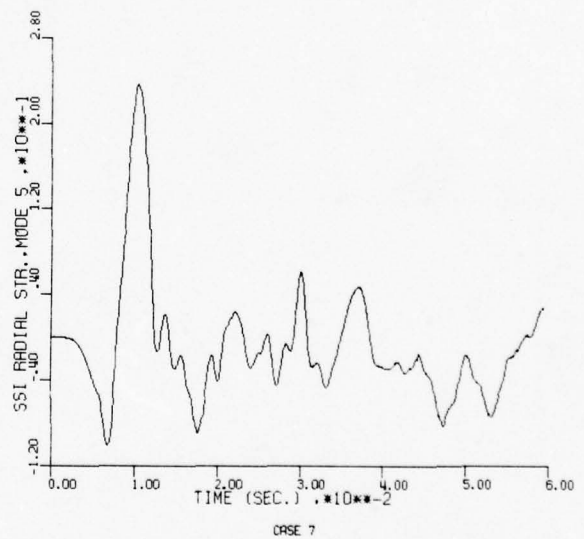
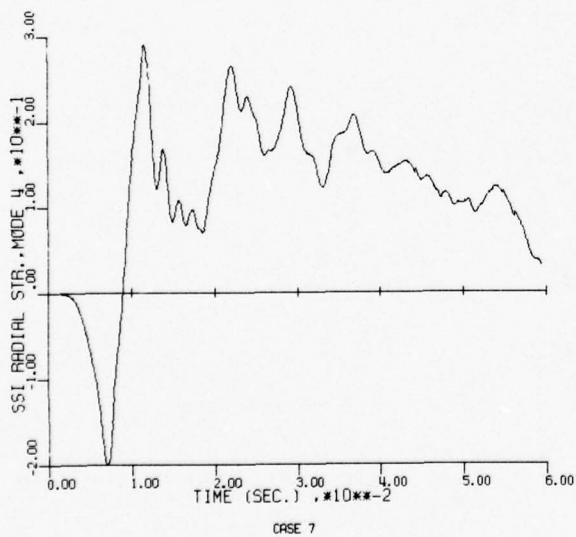
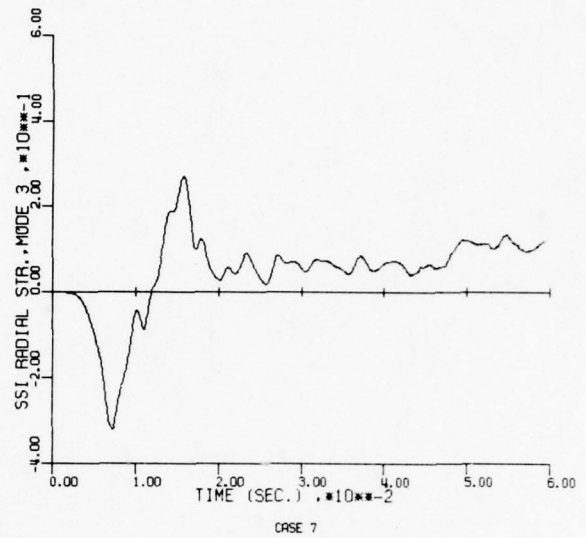
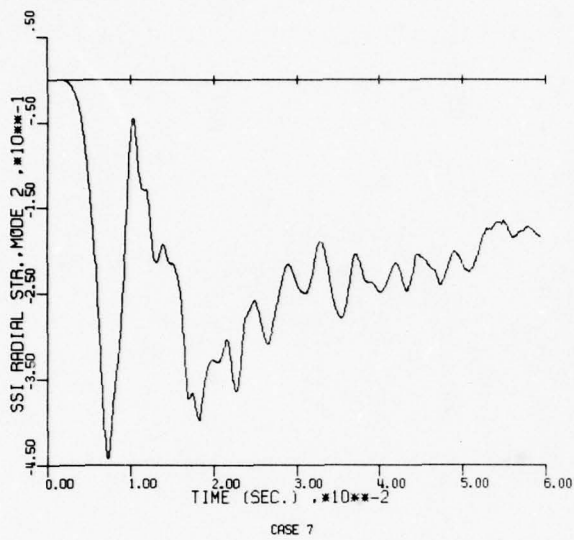
CASE 7



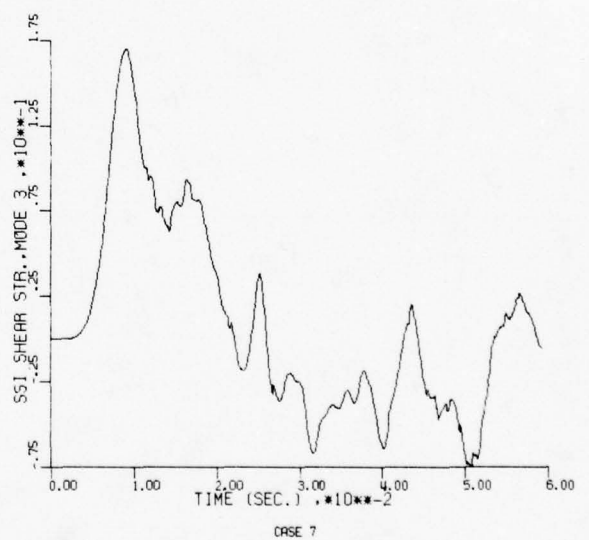
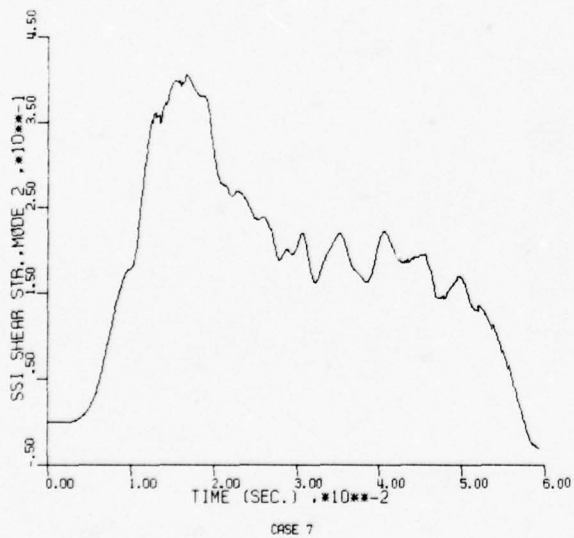
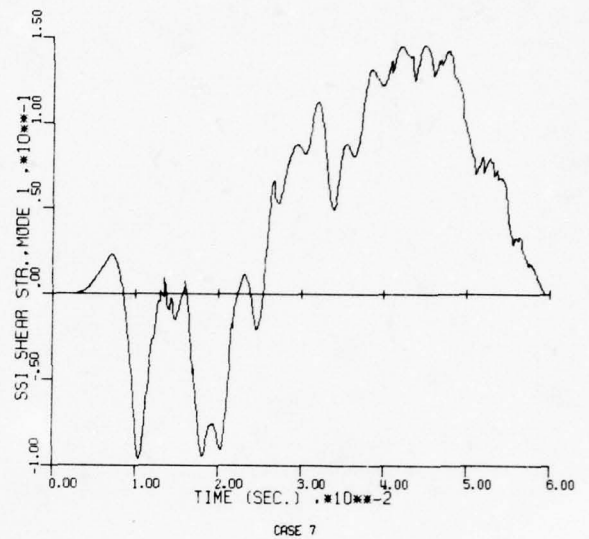
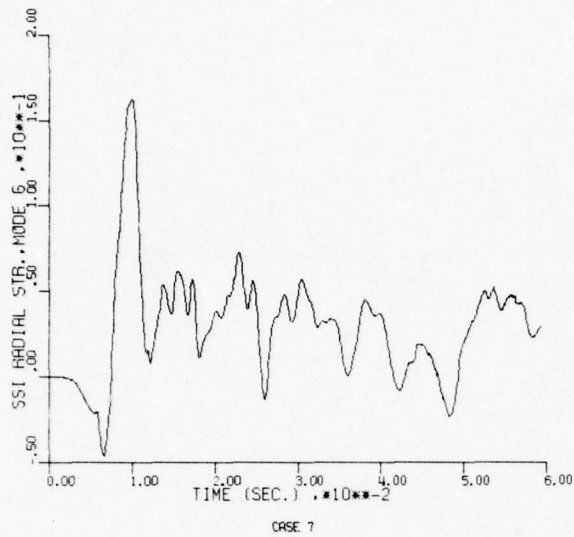
CASE 7

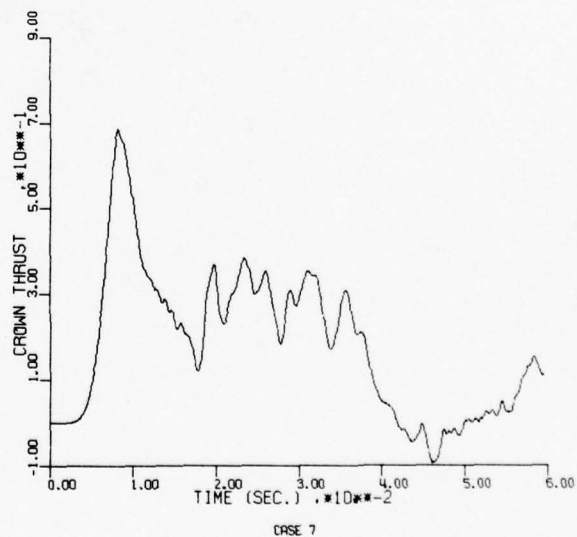
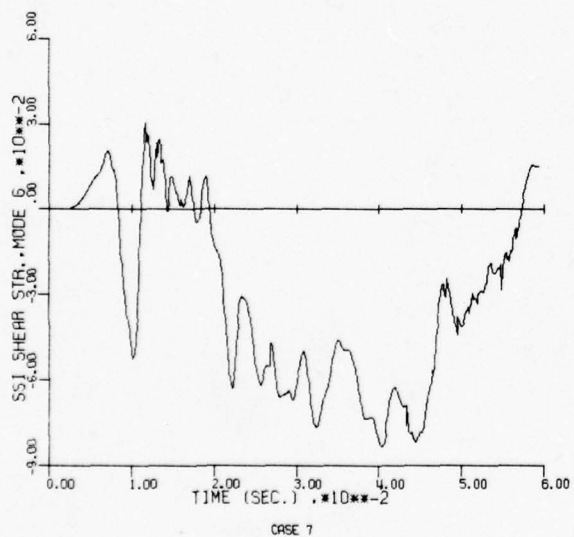
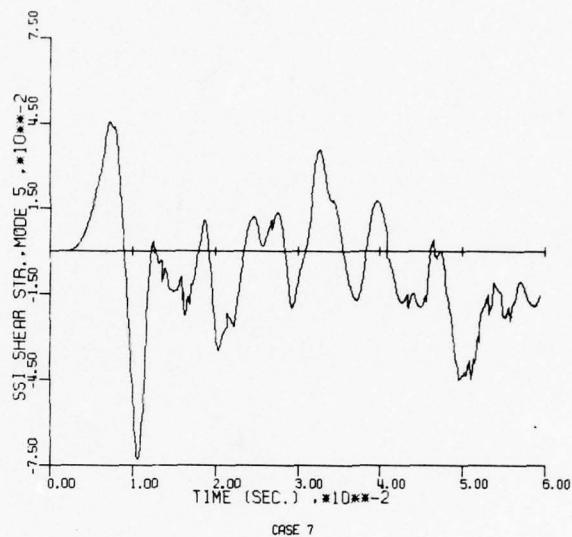
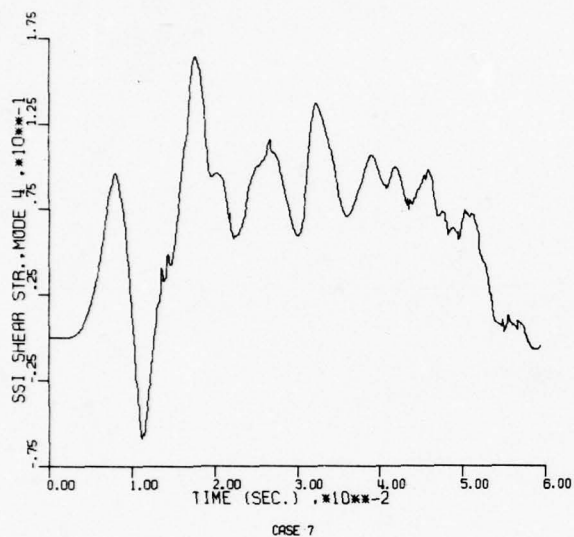


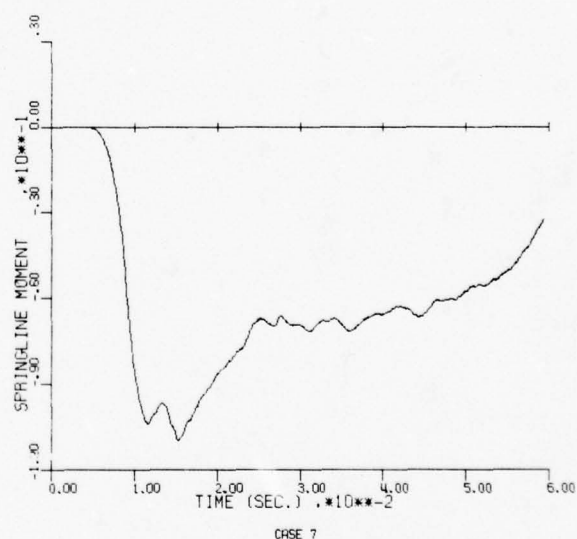
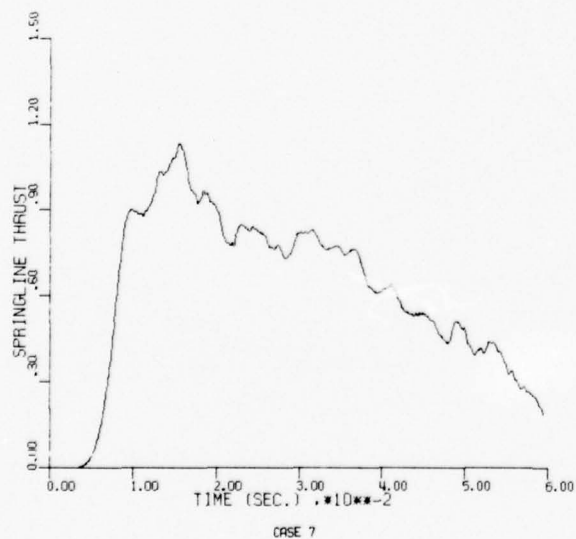
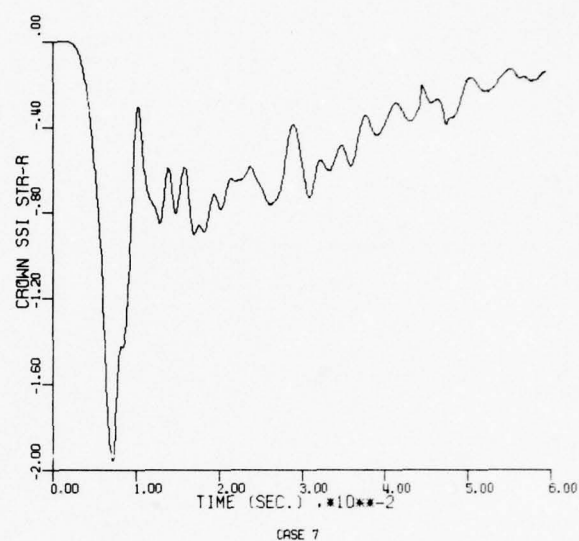
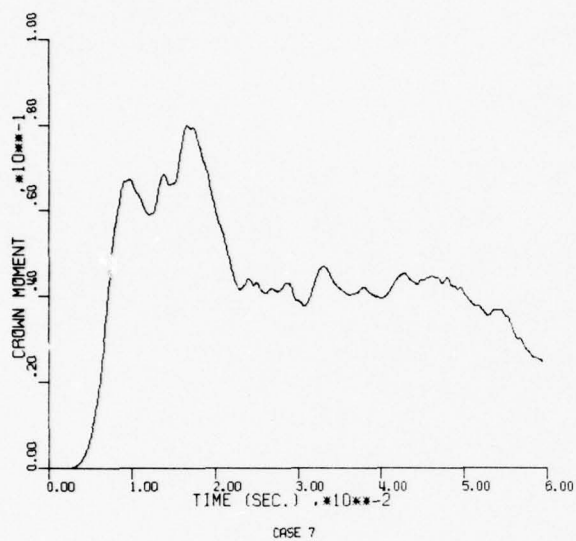
CASE 7

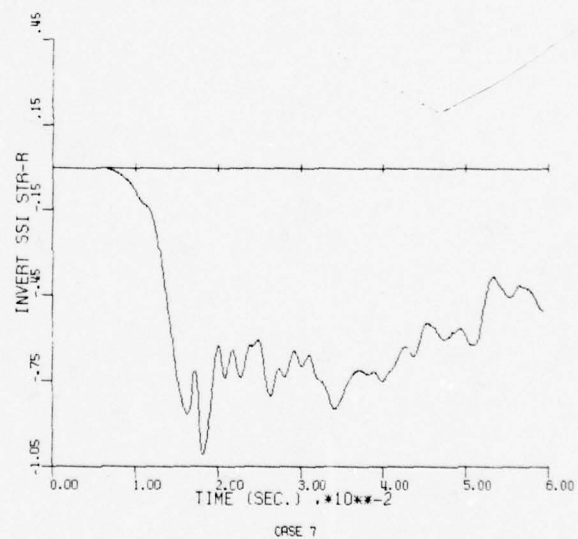
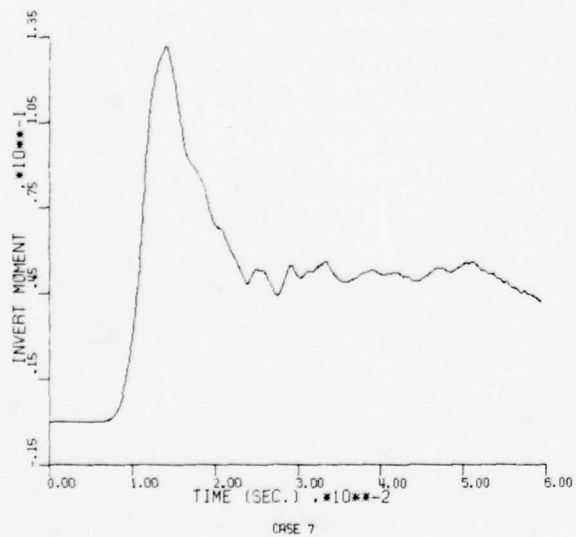
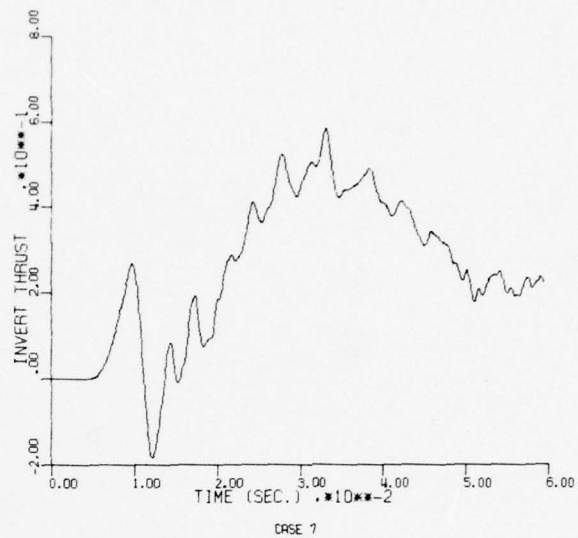
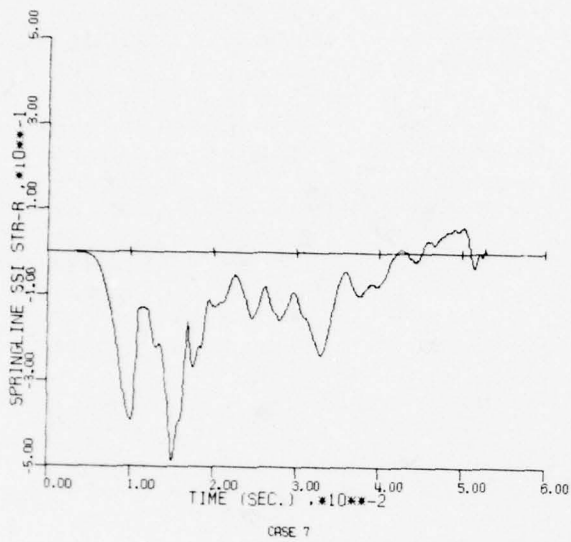












CASE 8

MIN.VALU8

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.097262	-2.695993	-.970252	-.004174
	2	0.000000	0.000000	-.184830	-2.470815	-.858752	-.020398
	3	0.000000	0.000000	-.270094	-2.079981	-.758988	-.096660
	4	0.000000	-.0010796	-.369308	-1.597595	-.586776	-.057966
	5	0.000000	-.0194066	-.373228	-1.080707	-.437534	-.186714
	6	0.000000	-.0332016	-.397829	-1.219574	-.531876	-.150234
	7	0.000000	-.0482118	-.356578	-.909701	-.564175	-.041902
	8	0.000000	-.0609838	-.416737	-1.049019	-.634880	-.020929
	9	0.000000	-.0704398	-.357611	-.662562	-.460332	-.052693
	10	0.000000	-.0786205	-.362426	-.884386	-.588498	-.144829
	11	0.000000	-.0842677	-.249541	-.491403	-.563069	-.172068
SPR	12	0.000000	-.0920577	-.272847	-.916174	-.688777	-.234182
	13	0.000000	-.1017390	-.220585	-.563902	-.507684	-.290594
	14	0.000000	-.1114145	-.089651	-.585042	-.449808	-.280828
	15	0.000000	-.1118470	-.000000	-.706943	-.506464	-.282981
	16	0.000000	-.0978309	-.000000	-.659860	-.404914	-.271669
	17	0.000000	-.0776319	-.011132	-.759321	-.376181	-.267709
	18	0.000000	-.0511362	-.046179	-.667996	-.381982	-.366105
	19	0.000000	-.0142770	-.079056	-.925370	-.517361	-.475766
	20	-.059947	-.000000	-.116236	-.722716	-.309069	-.365372
	21	-.172922	-.000000	-.141534	-1.101311	-.447143	-.509201
	22	-.257458	-.000000	-.165495	-.878529	-.338140	-.291275
	23	-.331025	-.000000	-.162438	-1.039602	-.383858	-.221000
INV	24	-.342821	-.000000	-.059142	-1.027666	-.381307	-.056273

MAX.VALU8

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.821412	.0743904	.025285	.004107	0.000000	.189991
	2	.802552	.0688796	.026452	0.000000	0.000000	.388212
	3	.885590	.0635433	0.000000	.024106	0.000000	.614947
	4	.910657	.0510986	0.000000	0.000000	0.000000	.580780
	5	1.034777	.0460843	0.000000	0.000000	.025174	.439240
	6	1.135493	.0301718	0.000000	0.000000	.002450	.394695
	7	1.165036	.0129007	.074716	.012206	0.000000	.489599
	8	1.175764	.000000	.132504	0.000000	.029797	.366798
	9	1.146876	.000000	.198568	.029213	.015779	.326731
	10	1.076603	.000000	.254075	.034548	.007729	.310875
	11	1.086617	.000000	.313687	.051932	0.000000	.260985
SPR	12	1.069221	.000000	.338499	.030285	0.000000	.102219
	13	1.027015	.0019894	.361354	.037072	.002419	.152595
	14	.979704	.0079384	.358091	.024131	.027170	.047315
	15	.955484	.0145837	.341575	.073602	.003534	.132102
	16	.898451	.0226449	.351621	.027490	.005536	.032030
	17	.839240	.0306766	.407764	.035573	.024728	.230570
	18	.764434	.0388056	.482929	.026068	.003785	.147721
	19	.625708	.0448185	.530545	0.000000	0.000000	.210509
	20	.561805	.0508225	.524423	0.000000	0.000000	.160980
	21	.481761	.0632350	.428298	0.000000	0.000000	.135216
	22	.499738	.0893576	.354392	0.000000	.030716	.215909
	23	.536421	.1078765	.265723	0.000000	0.000000	.139030
INV	24	.563563	.1262803	.132347	.028983	.048824	.076416



MIN-MAX MODAL AMPLITUDES -- CASE 8

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.88329E-01	-.42372E+00	-.16151E+00	-.94070E-01	-.54246E-01	-.31844E-01
MAX	.68003E+00	.52208E+00	.63725E-01	.85036E-01	.67892E-01	.36031E-01	.22863E-01

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.36321E-02	-.20851E-03	-.35003E-01	-.25978E-01	-.13526E-01	-.76198E-02
MAX	.21467E-05	.90308E-03	.89834E-01	.36598E-01	.15488E-01	.63144E-02	.61109E-02

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.81918E-02	-.35205E+00	-.19697E+00	-.11777E+00	-.67698E-01	-.51812E-01
MAX	0.	.18185E-01	0.	.15596E+00	.16788E+00	.10896E+00	.74797E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.63027E+00	-.71074E+00	-.48141E+00	-.35198E+00	-.24065E+00	-.16262E+00
MAX	0.	.17522E+00	.12569E-01	.26725E+00	.32262E+00	.24823E+00	.15986E+00

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.71190E-01	-.62855E-01	-.51957E-01	-.54075E-01	-.76893E-01	-.39362E-01
MAX	0.	.74245E-01	.40214E+00	.14964E+00	.12583E+00	.87546E-01	.60068E-01

UASL 8

## CROWN THRUST

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.012672	.001964	.001045	.002287		.000003	.001156	.000302	VARIABLE
MIN	0.000000	0.000000	0.000000	-0.001678		0.000000	0.000000	0.000000	.92875E-02
MAX	.827384	1.346066	1.202806	1.017339		.943359	.931547	.950763	.82141E+00

CROWN MOMLNT

	***** MODAL HISTORY/INPUT *****				***** VARIABLE *****				***** MODES *****				INPUT
	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	VARIABLE	MODES 0-7	MODES 0-8	MODES 0-9	INPUT
SRSS	.024342	.024508	.004626	.000343	.000978	.000487	.000075	.000075	.15531E-02	.000000	.000000	.000000	0.
MIN.	-.003632	-.003227	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.	.000000	.000000	.000000	0.
MAX.	.000029	.010018	1.162814	1.026458	1.003061	1.016516	1.024456	1.024456	.74390E-01	1.024456	1.024456	1.024456	0.

CROWN SYL STR-R

[illegible]

## SPRINGLINE THRUST

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.000991	.0001292	.000898	.000615	.000365	.000197	.000168	.000168	.21705E+01
MIN.	0.000000	0.000000	-0.000000	-0.000001	-0.000003	-0.000013	-0.000000	-0.000000	0.
MAX.	.636008	.042184	.997249	1.007658	.996192	.996296	.992272	.992272	.10692E+01

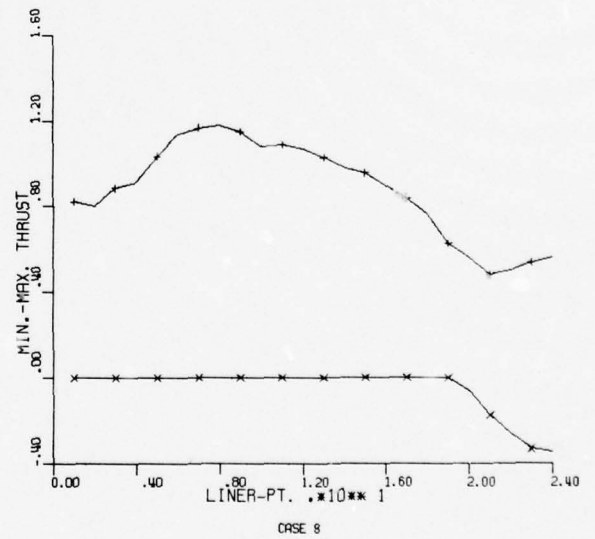
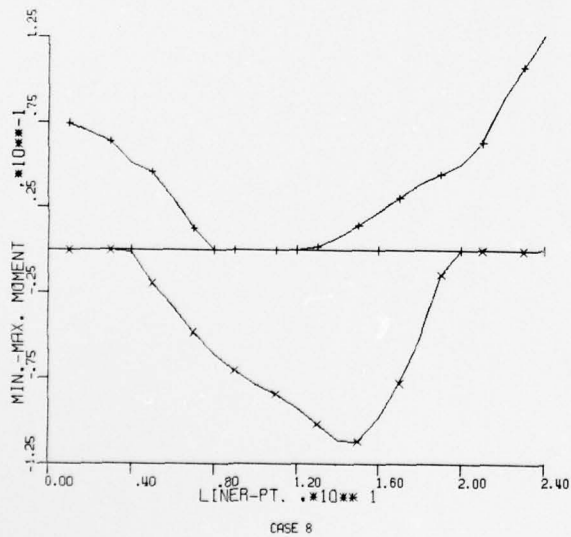
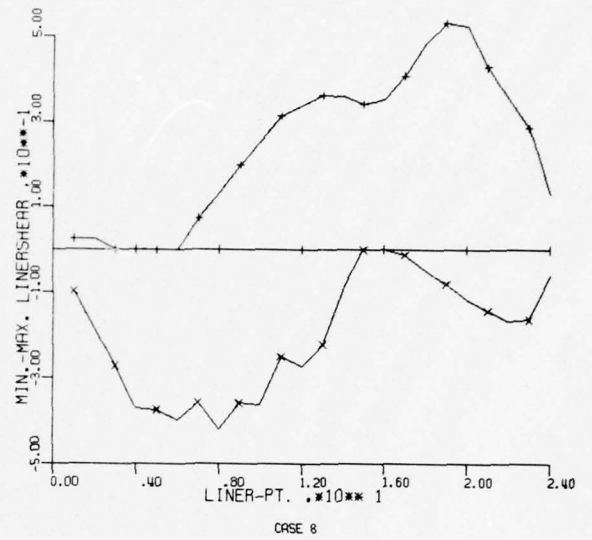
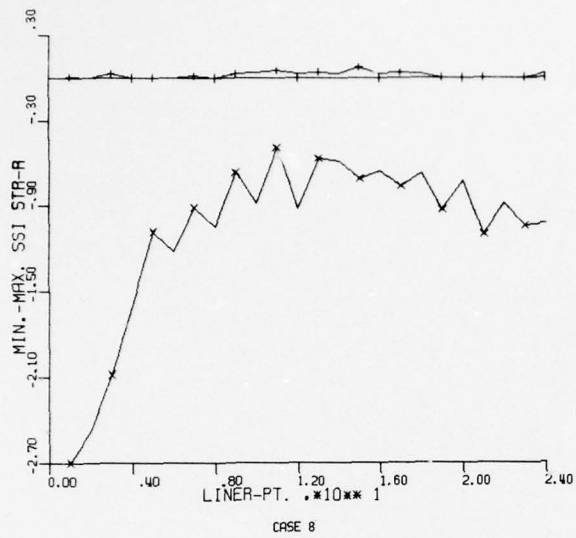
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .019046 .019039 .001202 .000592 .000138 .000257 .000145  
MIN. .039455 .039021 .997715 .991970 1.009027 1.002479 1.024192  
MAX. .000002 .000011 0.000000 0.000000 .000027 .001203 .000003  
VARIABLE \*\*\*\*\*  
INPUT .21712E-02  
VARIABLE  
-.92058E-01  
.32543E-17

SPRINGLINE GSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .016528 .015590 .003822 .002475 .004294 .004379 .003099  
MIN. .686403 .693741 .507225 .507968 .563326 .606526 .672255  
MAX. 0.000000 0.000000 6.106982 9.202100 1.572668 1.752847 .282445  
VARIABLE \*\*\*\*\*  
INPUT .10500E-01  
VARIABLE  
-.91817E+00  
.30285E-01

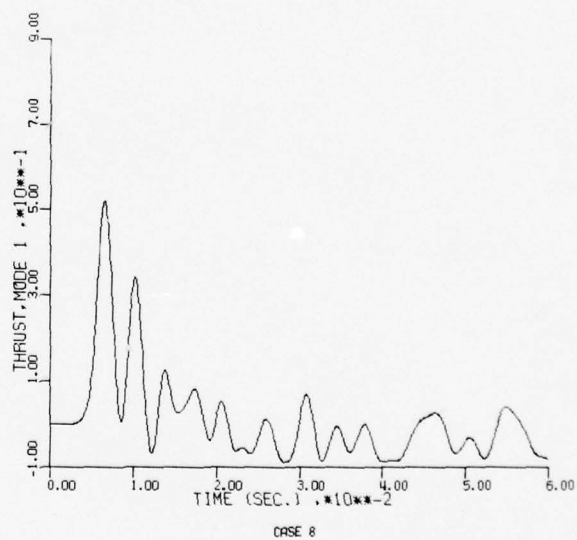
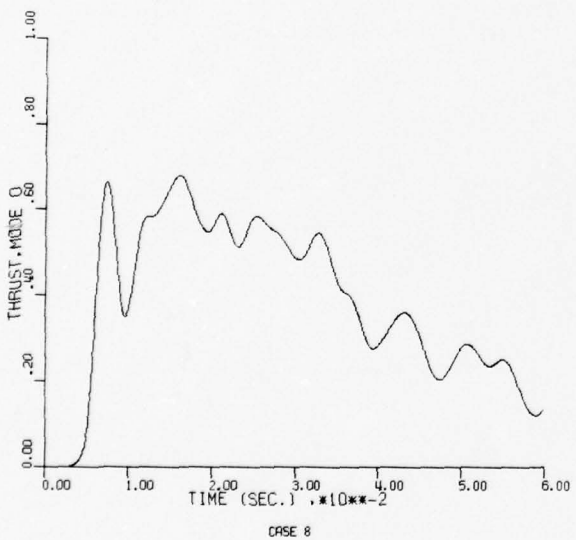
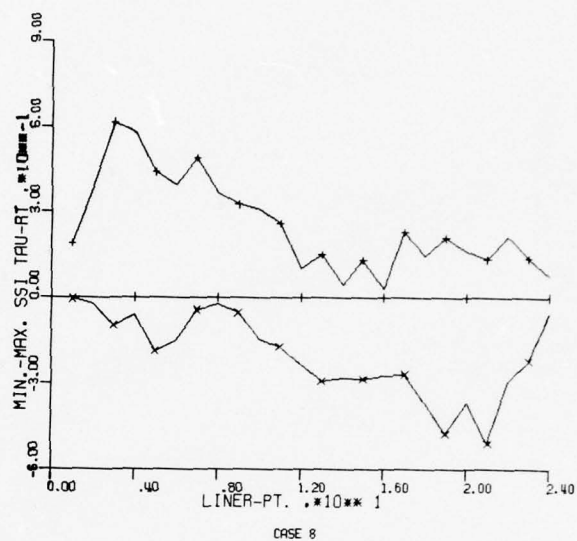
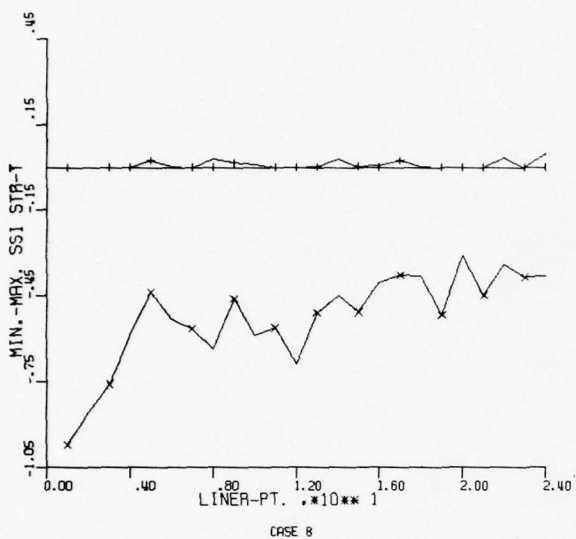
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .017328 .007037 .007921 .004719 .002518 .001404 .000583  
MIN. 0.000000 .210790 1.057665 1.032406 1.009280 1.037116 1.033238  
MAX. 1.206608 1.155245 .796698 .927089 1.015586 .977544 .994463  
VARIABLE \*\*\*\*\*  
INPUT .96636E-02  
VARIABLE  
-.34282E+00  
.56356E+00

INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .025244 .025122 .003708 .000560 .000093 .000268 .000145  
MIN. -.003632 -.004266 0.000000 -.012065 -.008618 -.001568 -.002288  
MAX. .000017 0.000000 .681585 .942159 .975524 .929861 .932188  
VARIABLE \*\*\*\*\*  
INPUT .21131E-02  
VARIABLE  
-.16187E-07  
.12628E+00

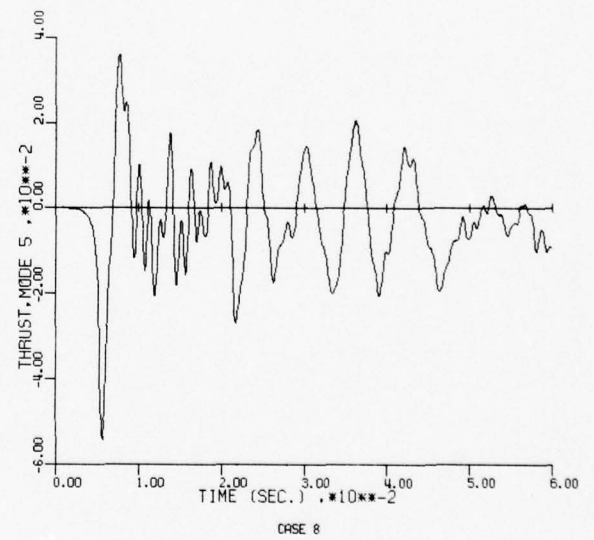
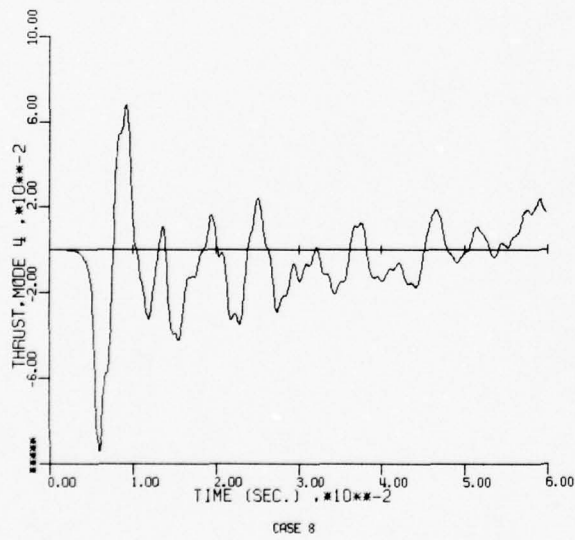
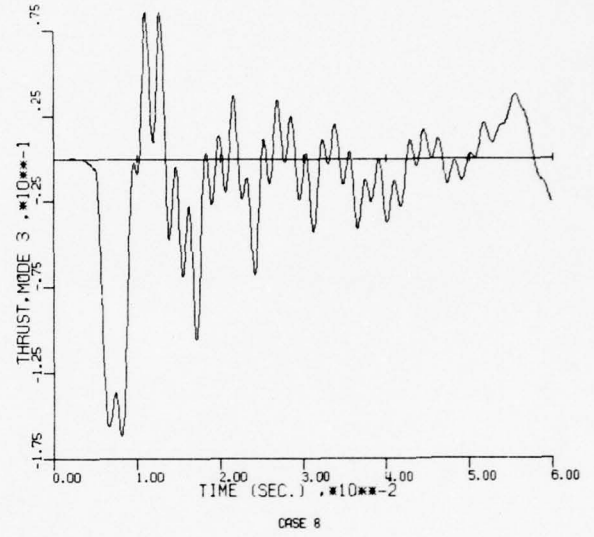
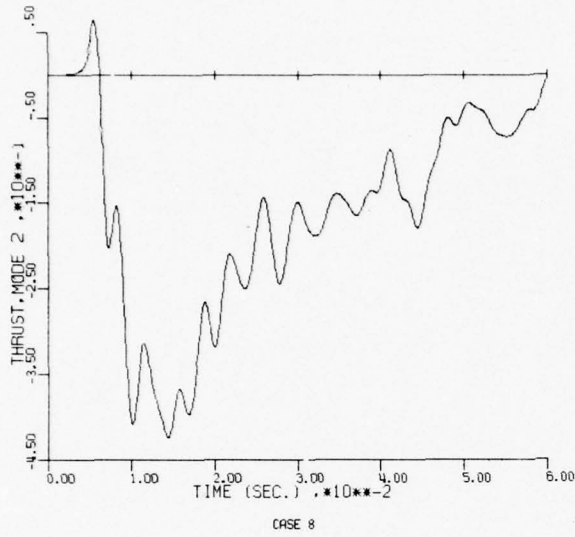
INVERT GSI STR-P  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .010458 .003407 .000015 .009322 .008433 .008555 .004902  
MIN. .613271 .654393 .981442 1.067156 1.038323 1.027105 .952677  
MAX. 0.000000 11.482046 0.000000 6.979803 3.728874 3.180933 2.038261  
VARIABLE \*\*\*\*\*  
INPUT .21494E-01  
VARIABLE  
-.10277E+01  
.28983E-01

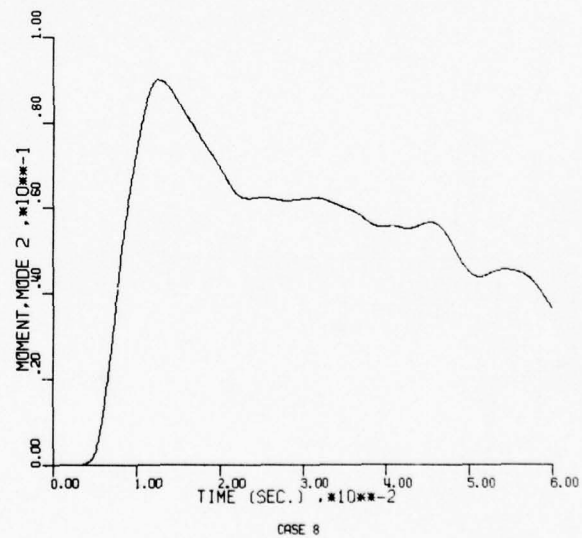
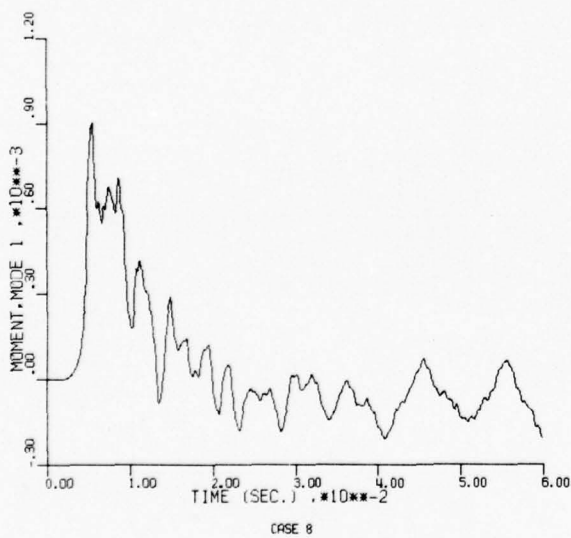
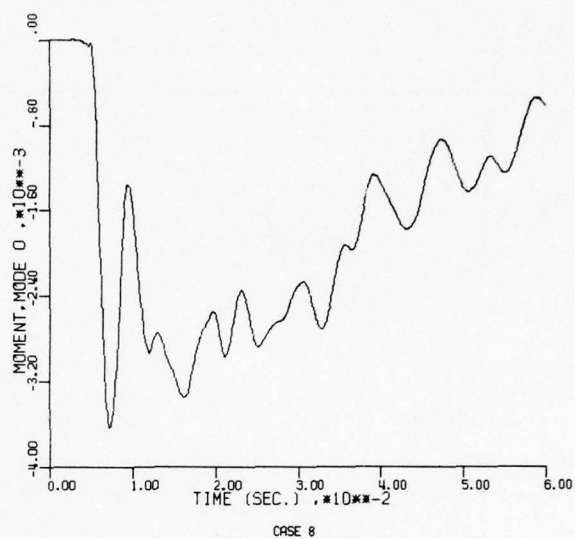
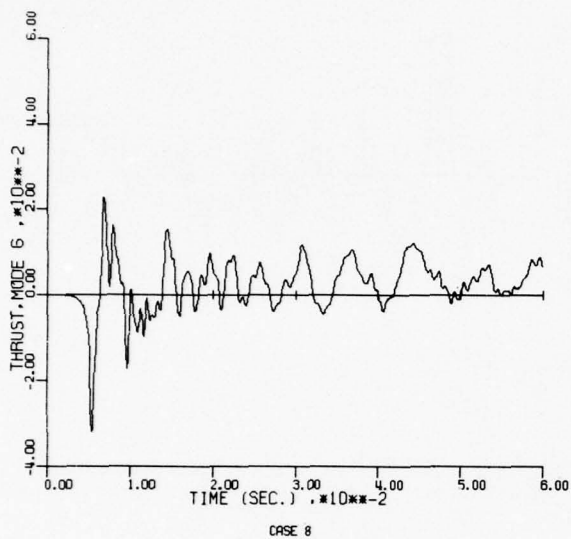


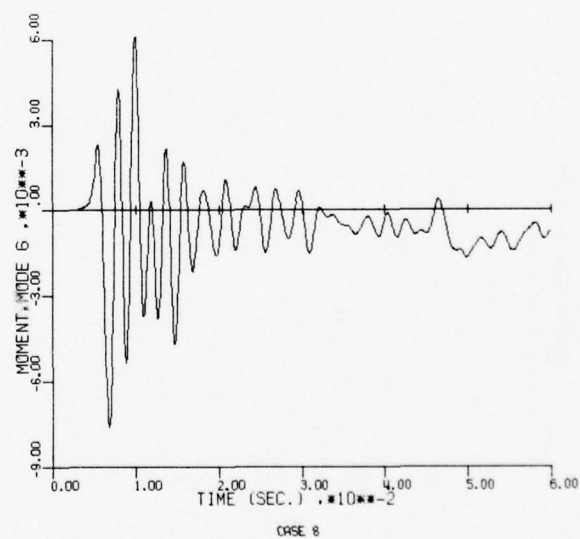
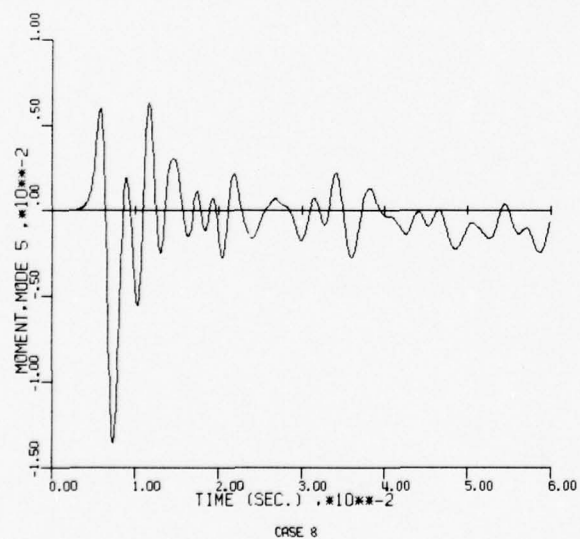
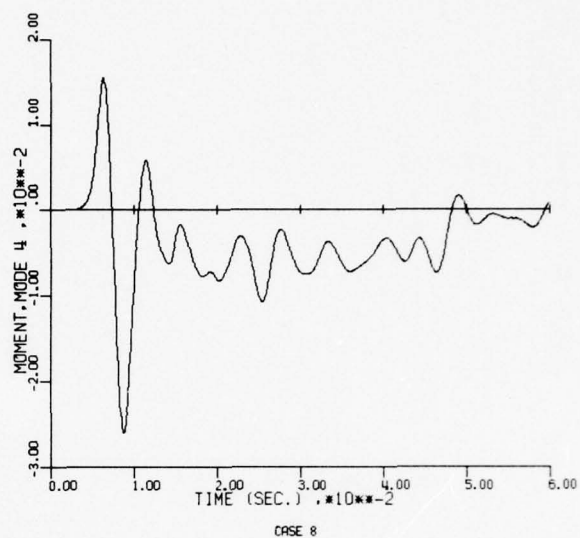
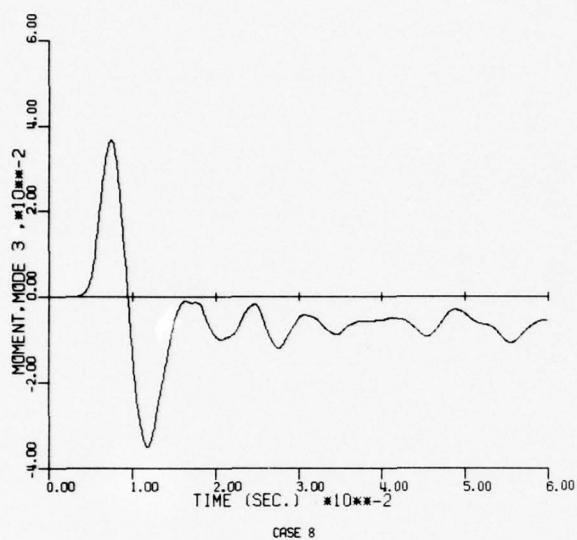


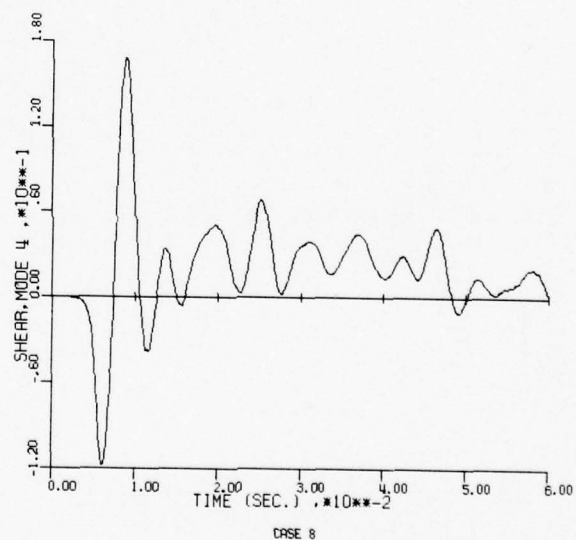
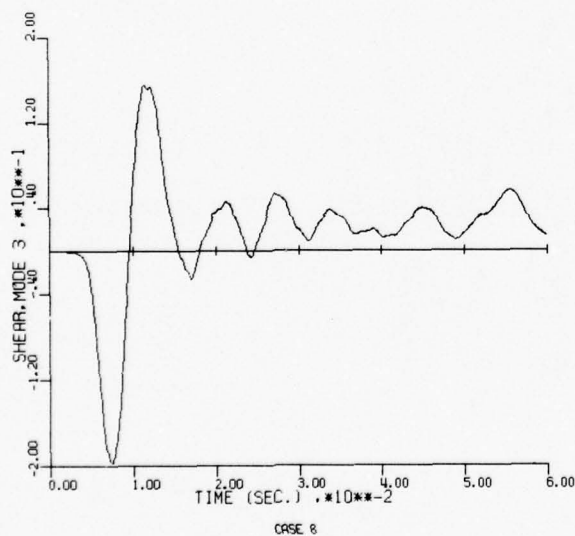
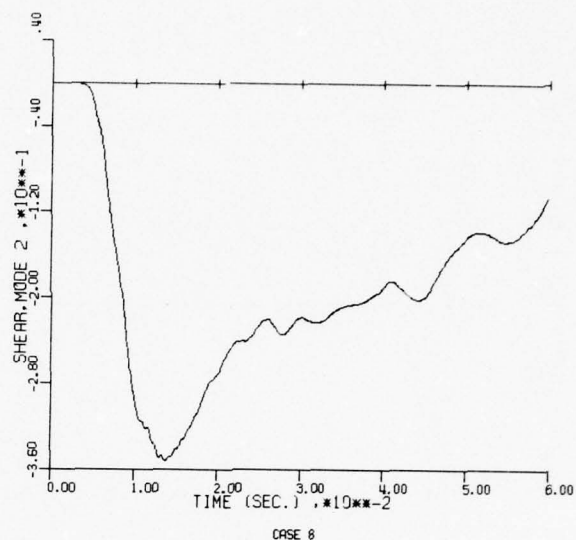
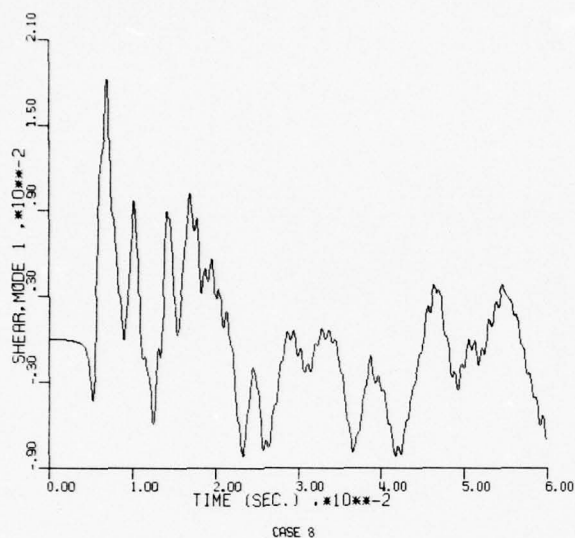


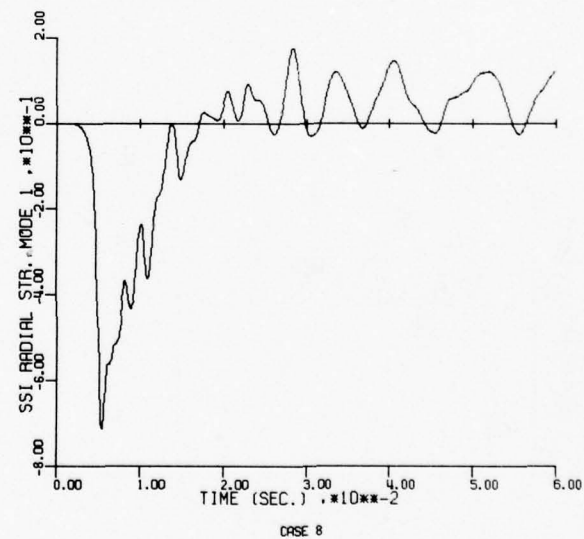
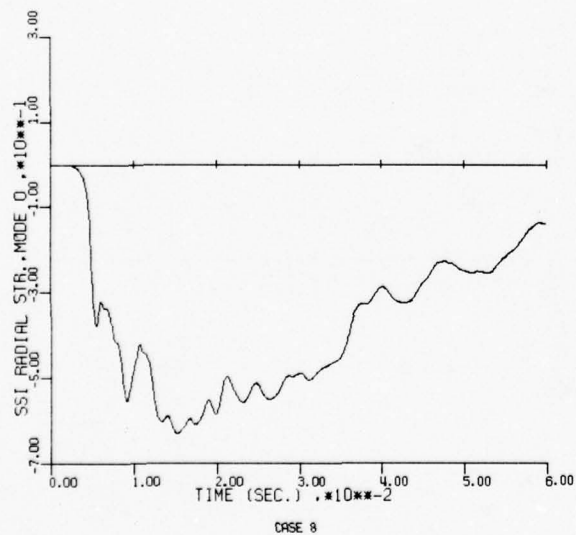
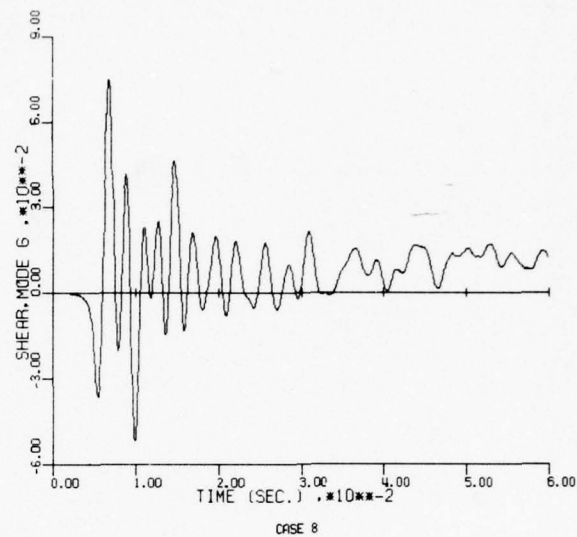
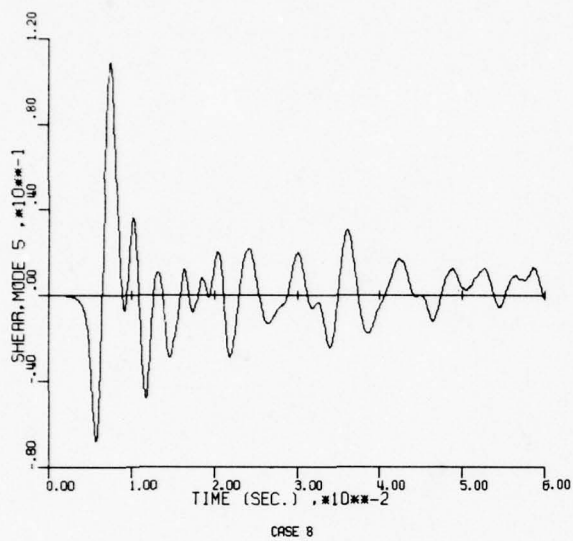




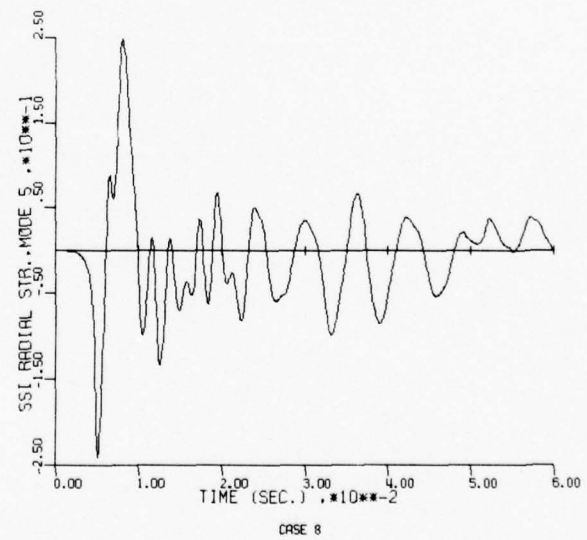
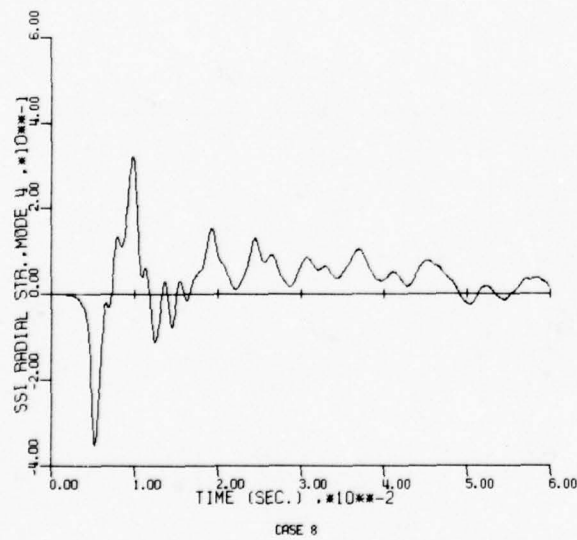
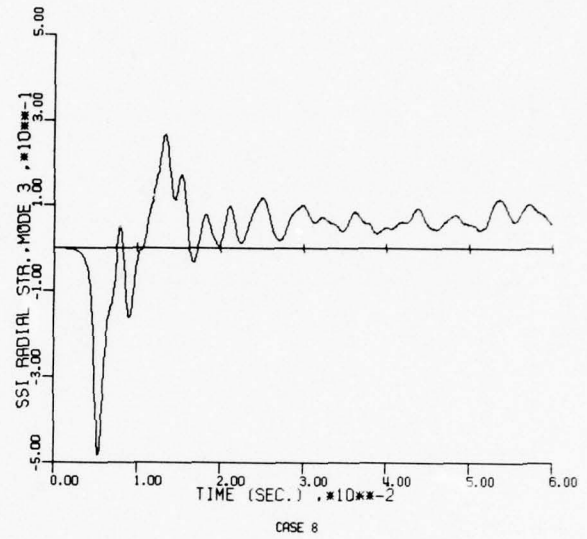
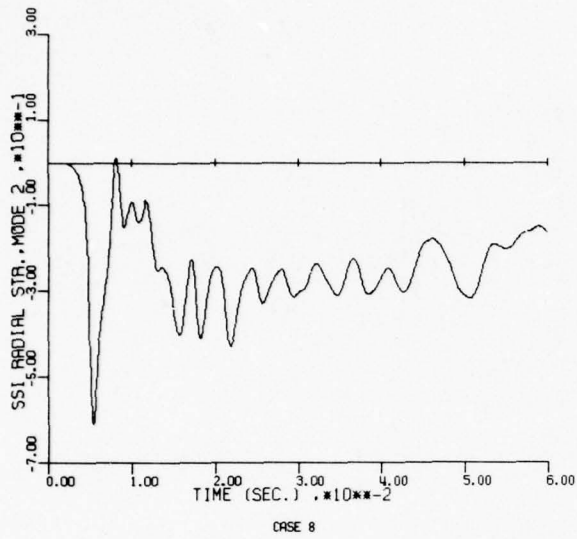


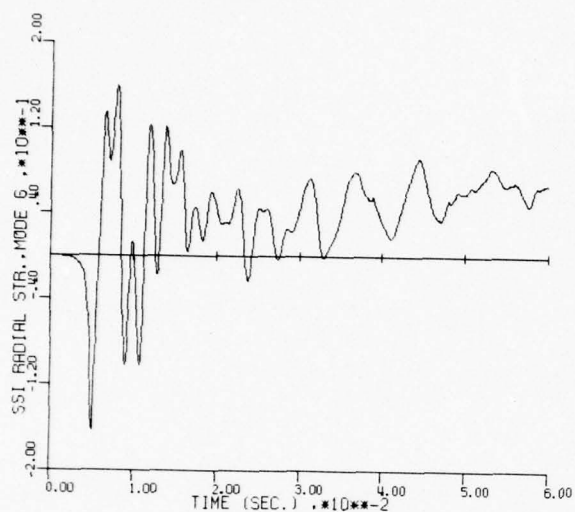




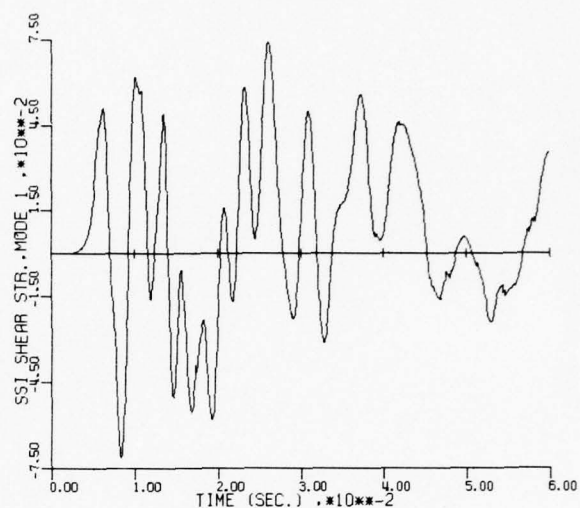




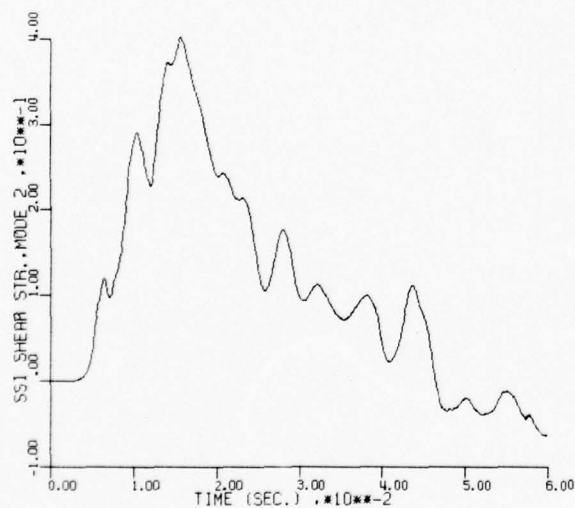




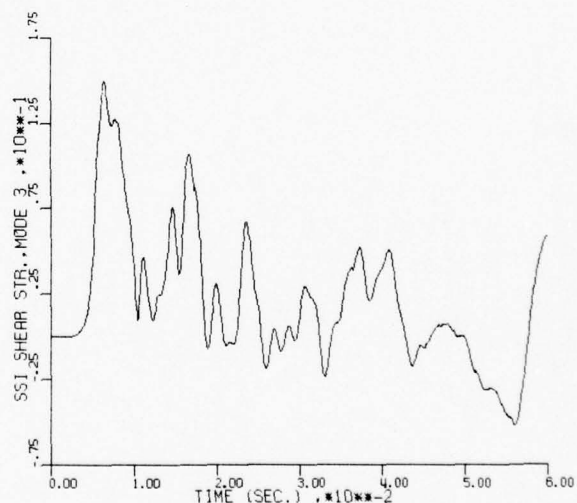
CASE 8



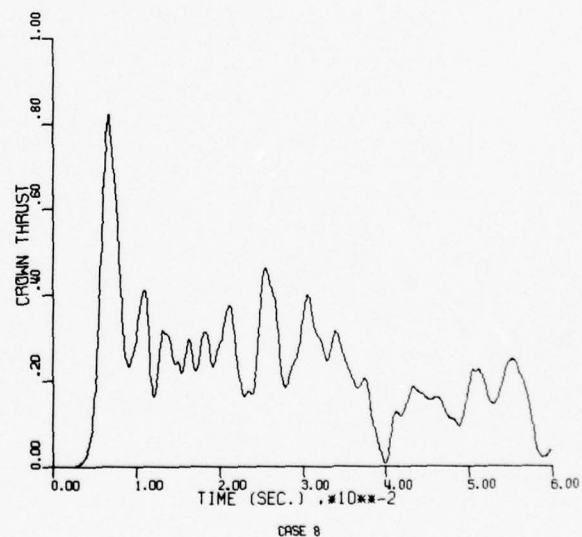
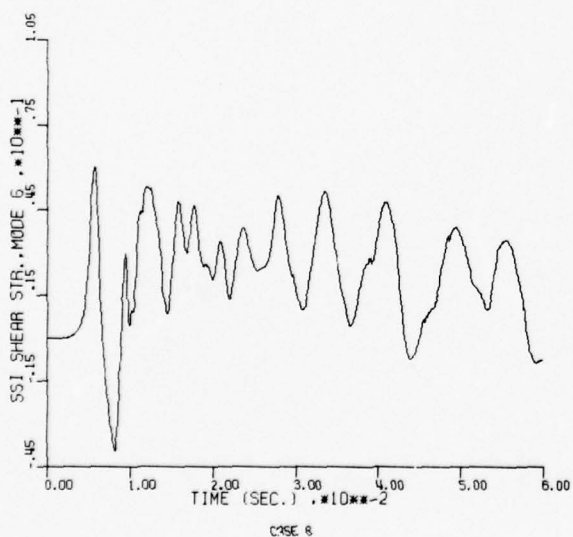
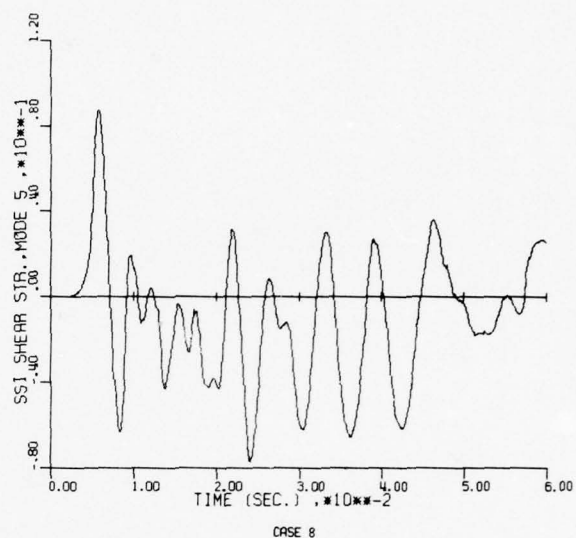
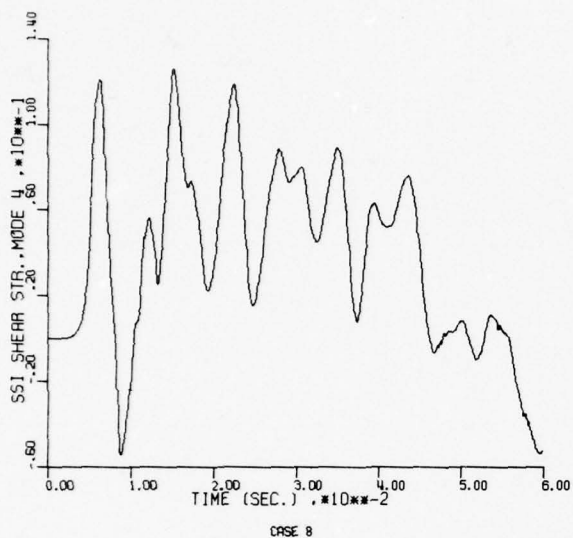
CASE 8

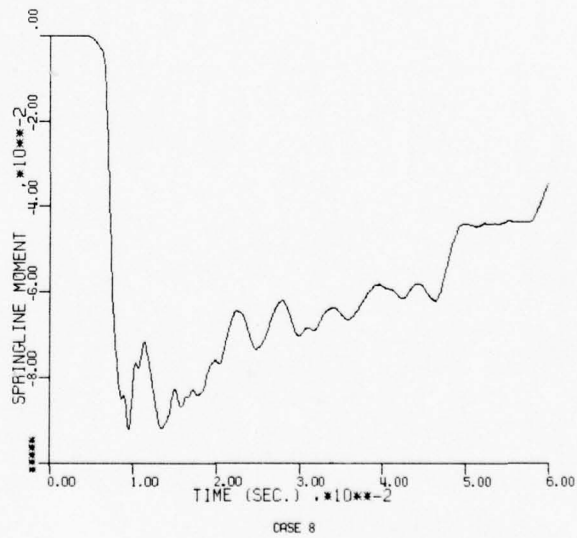
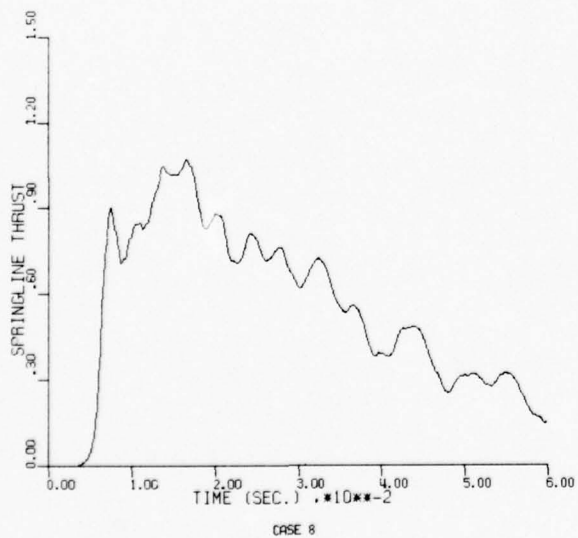
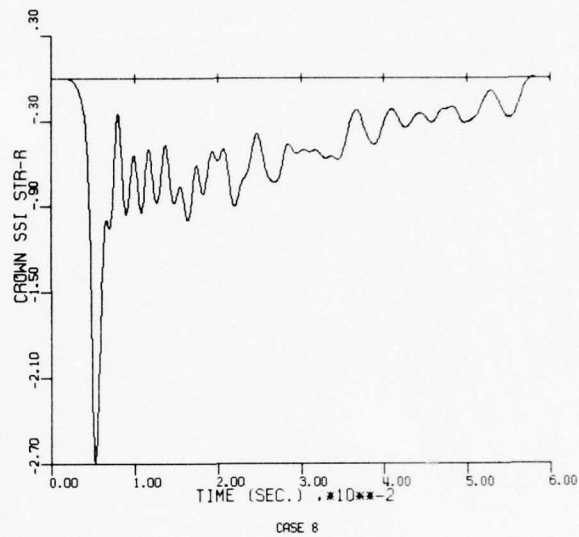
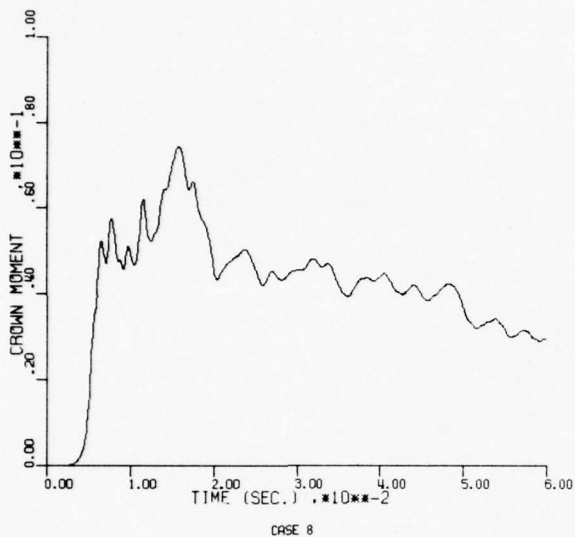


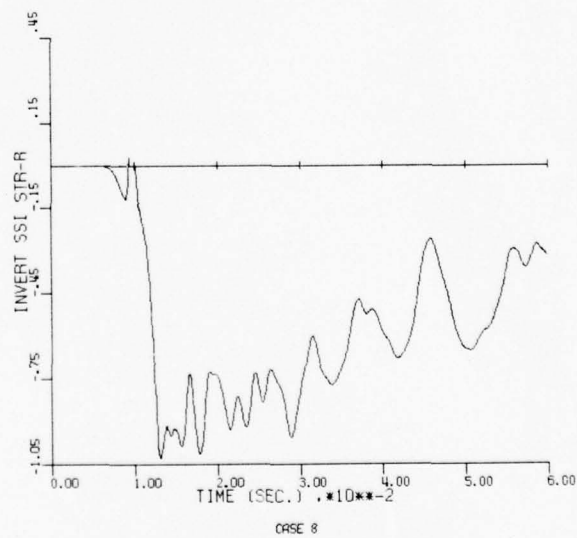
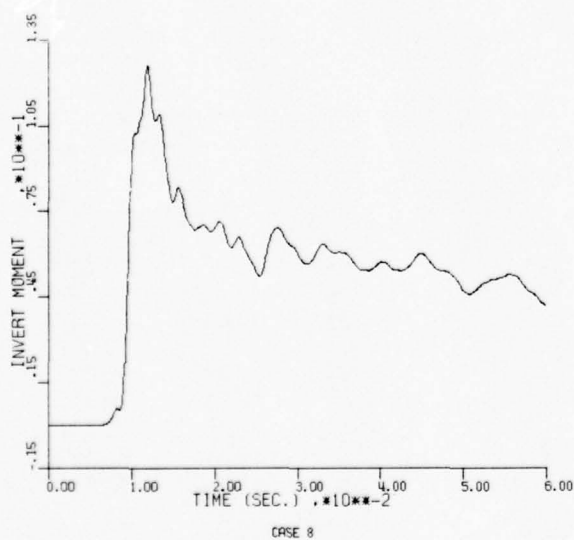
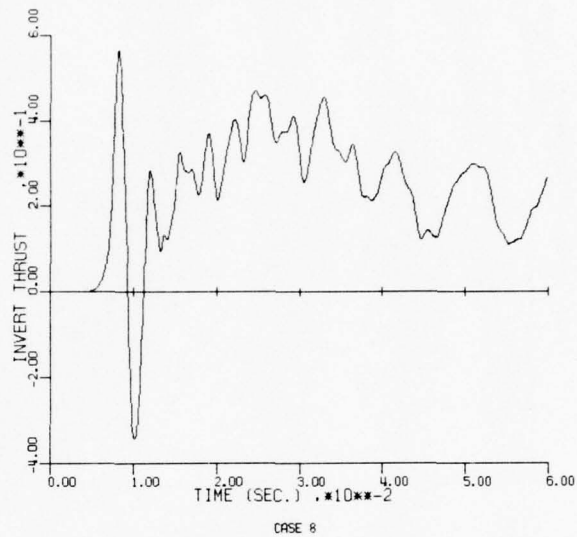
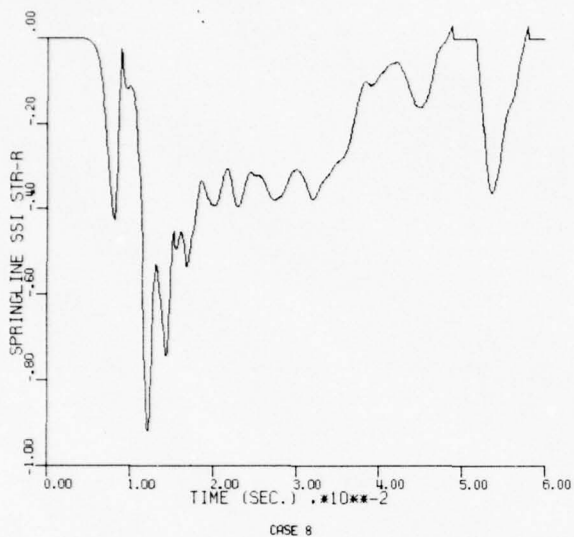
CASE 8



CASE 8









CASE 9

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FROM COPY FURNISHED TO DDC

## MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.0000000	-.024878	-.841467	-.405379	-.010902
	2	0.000000	0.0000000	-.029114	-.811698	-.377351	-.011317
	3	0.000000	-.0000011	-.050232	-.752545	-.420037	-.020189
	4	0.000000	-.0001767	-.069732	-.703836	-.358467	0.000000
	5	0.000000	-.0008541	-.080966	-.652447	-.377920	-.018113
	6	0.000000	-.0017602	-.088848	-.650673	-.385612	0.000000
	7	0.000000	-.0026657	-.077003	-.624764	-.383820	-.006652
	8	0.000000	-.0034047	-.084389	-.569826	-.413180	-.042209
	9	0.000000	-.0040324	-.063508	-.550936	-.389116	-.127117
	10	0.000000	-.0043385	-.056171	-.581927	-.465599	-.209216
SPR	11	0.000000	-.0043915	-.039126	-.502568	-.430854	-.255181
	12	0.000000	-.0042482	-.027382	-.595140	-.475374	-.290660
	13	0.000000	-.0040123	-.014606	-.577455	-.489019	-.308455
	14	0.000000	-.0039708	-.017097	-.577787	-.416474	-.292000
	15	-.000000	-.0037294	-.000000	-.621007	-.393982	-.352616
	16	-.000000	-.0032482	-.001379	-.566523	-.308105	-.299423
	17	-.000000	-.0025387	-.005869	-.597352	-.316593	-.319330
	18	-.000000	-.0017295	-.006353	-.554344	-.246042	-.250579
	19	-.000000	-.0004752	-.016428	-.586756	-.288459	-.290307
	20	0.000000	-.0000000	-.015043	-.467473	-.229030	-.232146
INV	21	-.000000	-.0000000	-.021408	-.499594	-.273599	-.265512
	22	-.000000	-.0000000	-.029717	-.390651	-.234859	-.220226
	23	-.000000	-.0000000	-.023091	-.393951	-.252112	-.179811
	24	-.000000	-.0000000	-.013531	-.311530	-.279925	-.120389

## MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.407332	.0032736	.001856	0.000000	0.000000	.111804
	2	.425001	.0030434	.000383	0.000000	0.000000	.225795
	3	.455244	.0028431	0.000000	0.000000	0.000000	.298800
	4	.495853	.0023538	0.000000	0.000000	0.000000	.277018
	5	.537346	.0018009	.000098	0.000000	0.000000	.296598
	6	.580149	.0011529	.001762	0.000000	0.000000	.293169
	7	.618979	.0005156	.011317	0.000000	0.000000	.297885
	8	.661787	.0000000	.020899	0.000000	0.000000	.235541
	9	.676014	.0000001	.039128	0.000000	0.000000	.224635
	10	.668482	.0000026	.055184	0.000000	0.000000	.241045
SPR	11	.694958	.0000342	.071949	0.000000	0.000000	.301781
	12	.678092	.0001085	.086464	0.000000	0.000000	.170018
	13	.647111	.0002773	.080457	0.000000	0.000000	.293335
	14	.634340	.0005293	.087923	0.000000	0.000000	.092216
	15	.573420	.0008300	.082916	0.000000	0.000000	.076199
	16	.539277	.0012729	.094342	0.000000	0.000000	.067147
	17	.476404	.0015550	.075737	0.000000	0.000000	.041979
	18	.455427	.0018295	.085963	0.000000	0.000000	.021849
	19	.399937	.0021723	.076154	0.000000	0.000000	.020081
	20	.359841	.0023362	.092661	0.000000	0.000000	.031618
INV	21	.320836	.0027972	.065852	0.000000	0.000000	.000000
	22	.298983	.0037226	.048655	0.000000	0.000000	.000000
	23	.288131	.0041865	.023159	0.000000	0.000000	.000000
	24	.288246	.0042542	.001232	0.000000	0.000000	.004047

MIN-MAX MODAL AMPLITUDES -- CASE 9

LINER THRUST PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.65919E-01	-.19134E+00	-.96654E-01	-.41408E-01	-.15325E-01
MAX	.45226E+00	.22728E+00	.18425E-01	.57321E-01	.20572E-01	.16816E-01
						MODE 6
						-.12246E-01
						.79291E-02
LINER MOMENT PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.15710E-03	-.47398E-05	0.	-.10913E-02	-.11125E-02	-.83738E-03
MAX	.42021E-07	.12408E-04	.38027E-02	.18792E-02	.87856E-03	.32272E-03
						MODE 6
						-.45572E-03
						.27454E-03
LINER SHEAR PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.13461E-02	-.53247E-01	-.42350E-01	-.25766E-01	-.11306E-01
MAX	0.	.44130E-02	0.	.20192E-01	.28357E-01	.27224E-01
						MODE 6
						-.11189E-01
						.17657E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.43534E+00	-.32242E+00	-.18979E+00	-.11051E+00	-.62103E-01	-.67180E-01
MAX	0.	.12262E+00	.12793E+00	.51769E-01	.58858E-01	.62737E-01
						MODE 6
						-.54128E-01
						.48732E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.80885E-01	0.	-.10347E+00	-.54667E-01	-.28813E-01
MAX	0.	.32505E-01	.28142E+00	.17306E+00	.92800E-01	.60897E-01
						MODE 6
						-.17643E-01
						.58929E-01

CASE 9

CROWN THRUST  
\*\*\*\*\*  
MODE 0 .011843  
SRSS .001285  
MIN. 0.000000  
MAX. 1.110308  
\*\*\*\*\*  
MODES 0-1 .397822  
MODES 0-2 1.246492  
MODES 0-3 1.092144  
MODES 0-4 .999656  
MODES 0-5 .980603  
MODES 0-6 .996957  
\*\*\*\*\*  
VARIABLE .002648  
MODES 0-3 0.000000  
MODES 0-4 -.002608  
MODES 0-5 0.000000  
MODES 0-6 0.000000  
\*\*\*\*\*  
INPUT  
VARIABLE .10662E-01  
0.  
.40733E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 .055730  
SRSS -.000157  
MIN. .000013  
MAX. .000345  
\*\*\*\*\*  
MODES 0-1 .055758  
MODES 0-2 .024159  
MODES 0-3 .000613  
MODES 0-4 .001506  
MODES 0-5 .000325  
MODES 0-6 .002216  
\*\*\*\*\*  
VARIABLE .14646E-03  
0.  
.32736E-02

CROWN SSI STR-R  
\*\*\*\*\*  
MODE 0 .006191  
SRSS .517357  
MIN. 0.000000  
MAX. 0.000000  
\*\*\*\*\*  
MODES 0-1 .000094  
MODES 0-2 .011118  
MODES 0-3 .002370  
MODES 0-4 .002837  
MODES 0-5 .001582  
MODES 0-6 .000081  
\*\*\*\*\*  
VARIABLE .17996E-01  
-.84147E+00  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 .002072  
SRSS 0.000000  
MIN. .666966  
MAX. .675428  
\*\*\*\*\*  
MODES 0-1 .000301  
MODES 0-2 .000560  
MODES 0-3 -.000003  
MODES 0-4 .000769  
MODES 0-5 .000490  
MODES 0-6 .000156  
\*\*\*\*\*  
VARIABLE .19512E-01  
0.  
.67809E+00

SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .061006 .061004 .004156 .000138 .000866 .000540 .001002  
MIN. .036979 .036928 .900792 .877083 1.029475 1.005567 1.013271  
MAX. .000387 .000578 0.000000 0.000000 .795205 1.618889 1.098623  
INPUT  
VARIABLE  
.17963E-03  
-.42482E-02  
.10848E-03

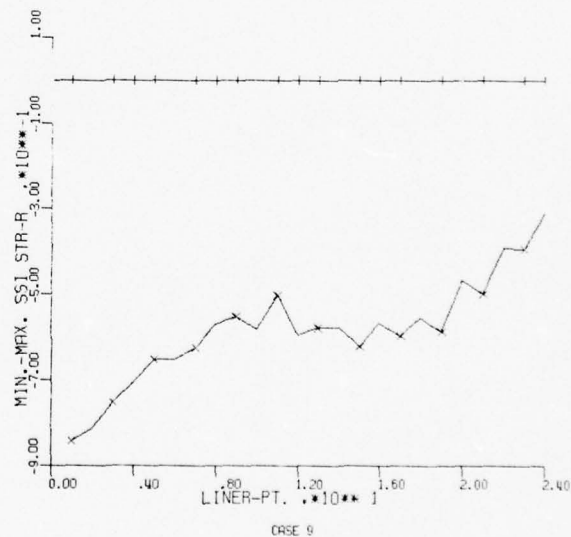
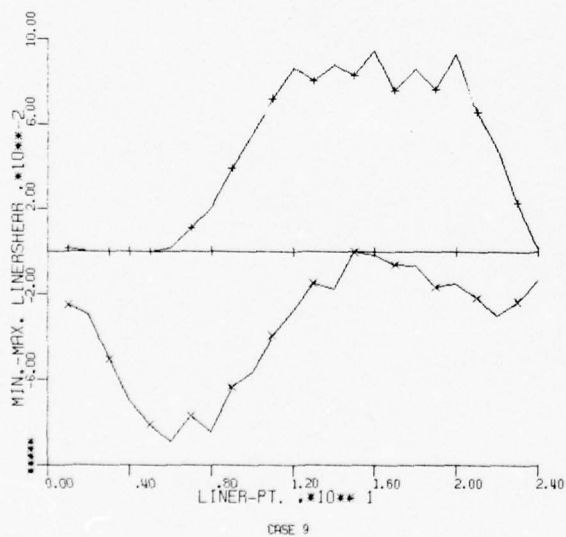
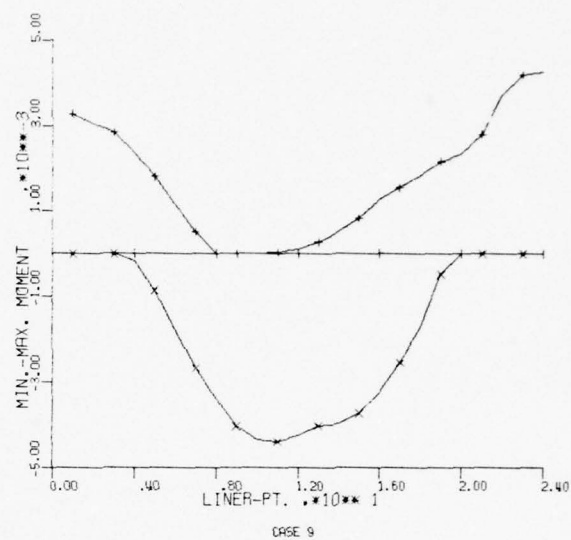
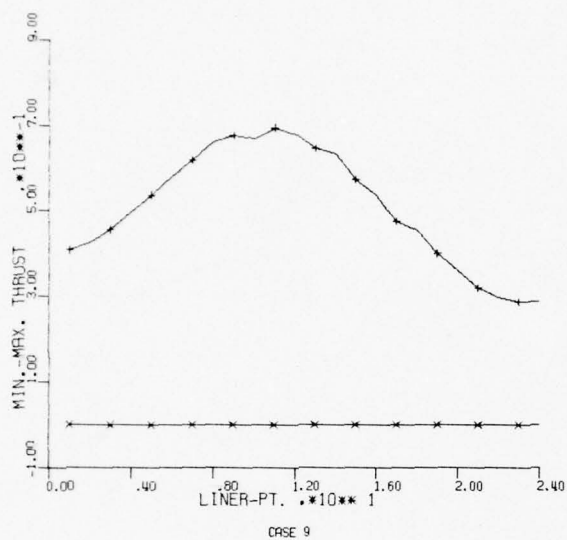
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .013419 .012930 .000367 .001697 .002251 .001746 .003718  
MIN. .731490 .738843 .939437 .930432 .879244 .865626 .851464  
MAX. 0.000000 0.000000 .023654 .041042 0.000000 0.000000 .000041  
INPUT  
VARIABLE  
.15174E-01  
-.59514E+00  
0.

INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .002531 .010945 .005926 .002884 .002395 .000472 .000308  
MIN. 0.000000 -.016376 0.000000 -.000002 -.002624 -.000000 -.000445  
MAX. 1.569024 1.506081 .895783 1.066862 1.033940 .987349 .999697  
INPUT  
VARIABLE  
.83531E-02  
-.16899E-47  
.28825E+00

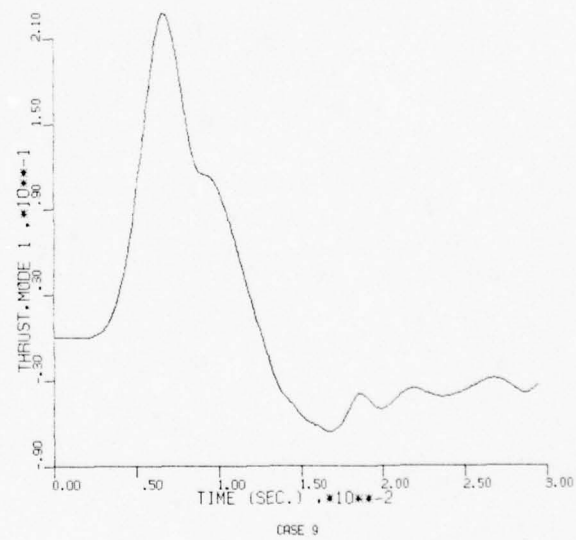
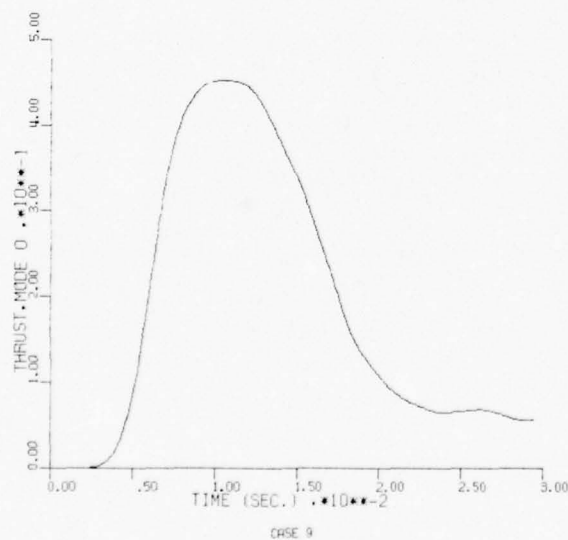
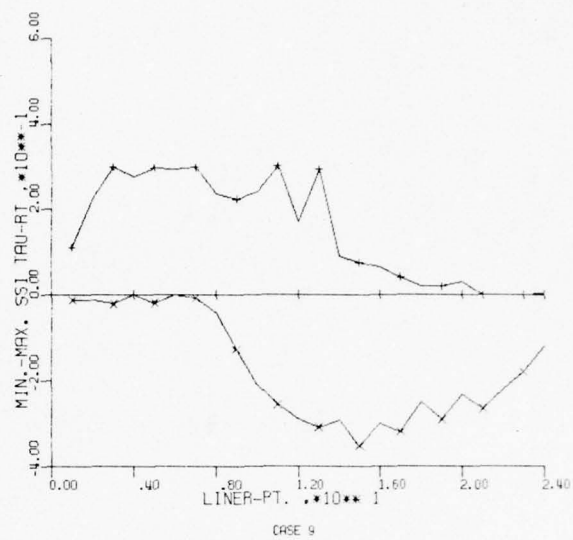
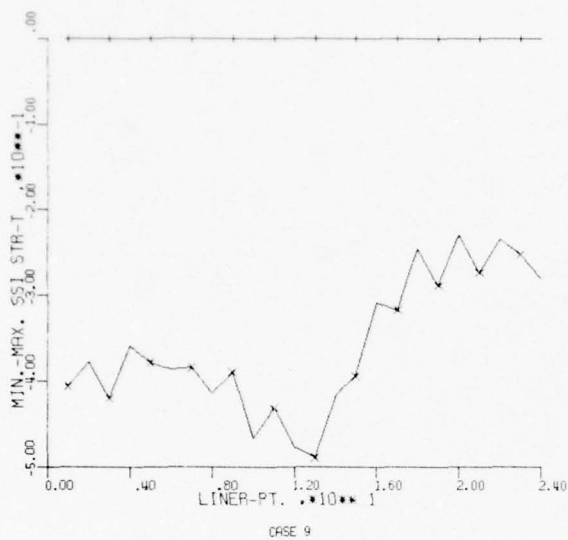
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .081246 .081222 .013216 .007364 .007104 .006100 .004490  
MIN. -.000157 -.000160 0.000000 -.000043 -.000437 -.000069 -.000060  
MAX. .000010 0.000000 .875488 1.065338 1.056634 1.094073 1.077243  
INPUT  
VARIABLE  
.17211E-03  
-.10601E-09  
.42542E-02

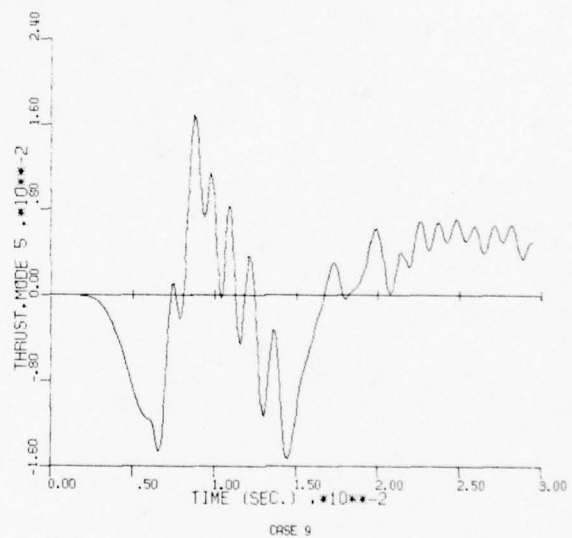
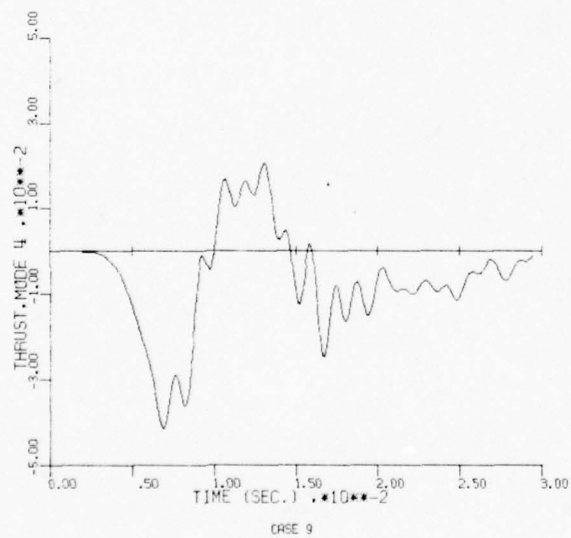
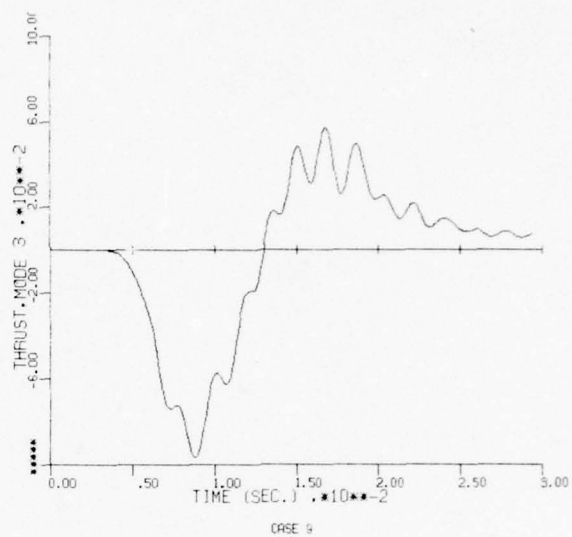
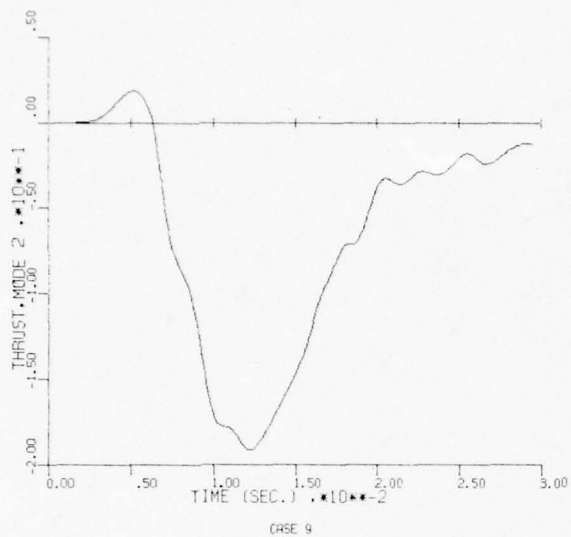
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .022578 .011222 .009037 .024844 .025688 .027955 .024950  
MIN. 1.397420 1.463830 1.208722 1.175234 1.232760 1.244862 1.277968  
MAX. 0.000000 .116814 0.000000 .038443 0.000000 .008955 .007867  
INPUT  
VARIABLE  
.99597E-02  
-.31153E+00  
0.

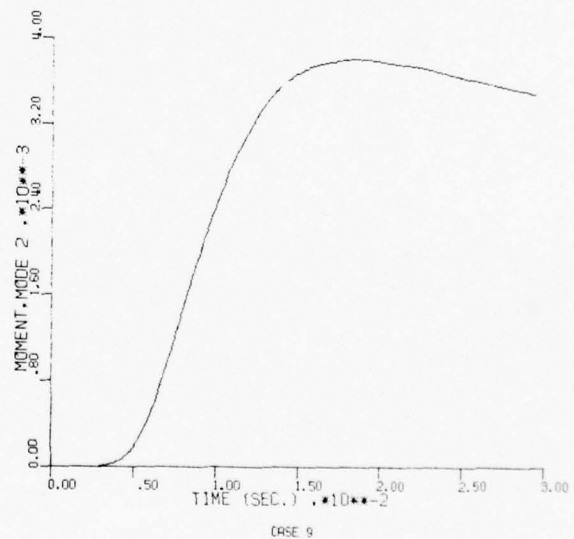
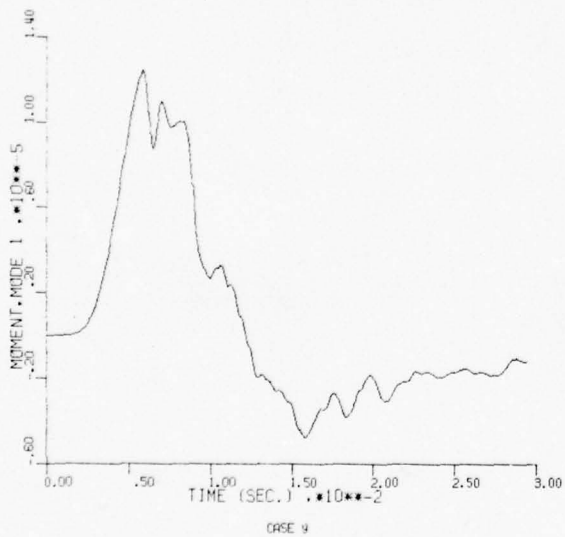
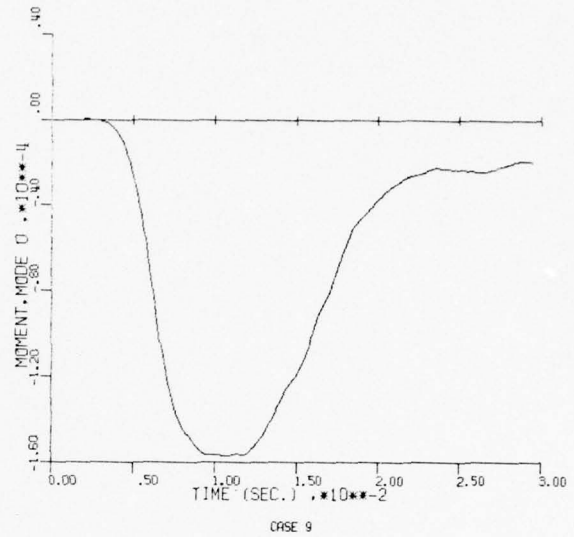
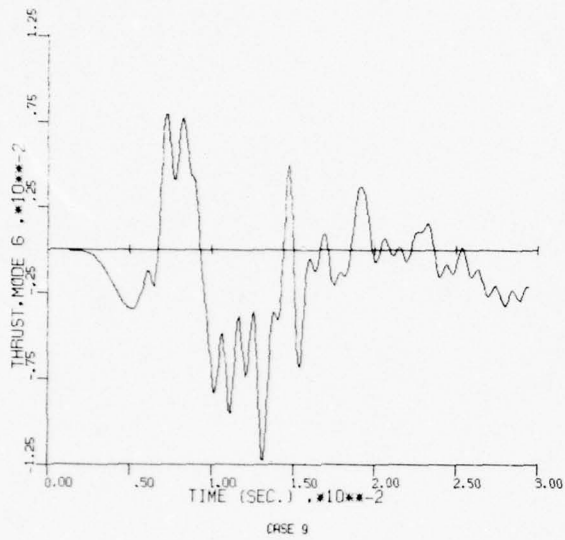


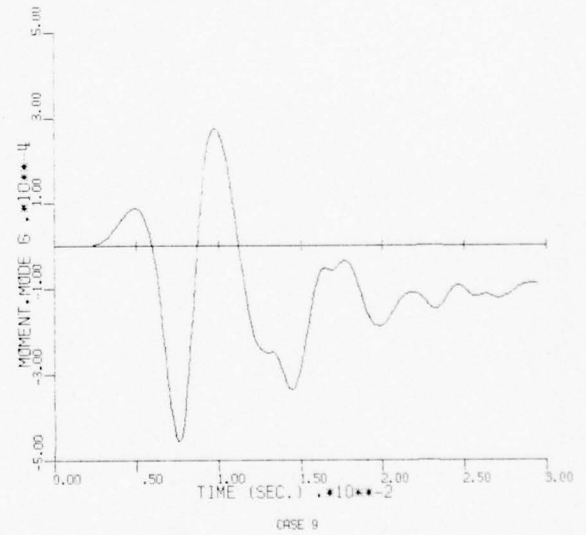
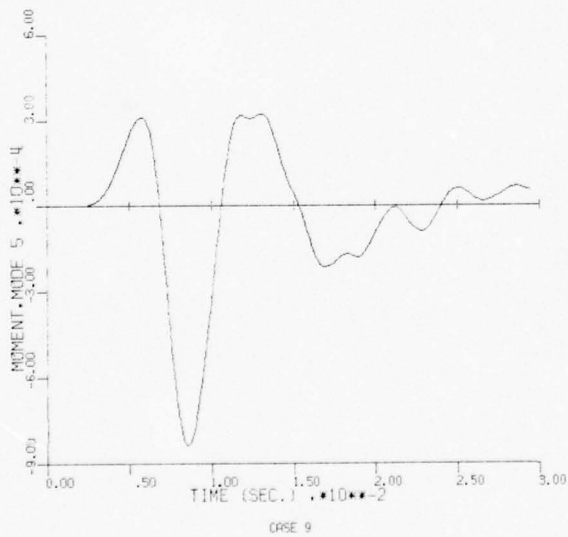
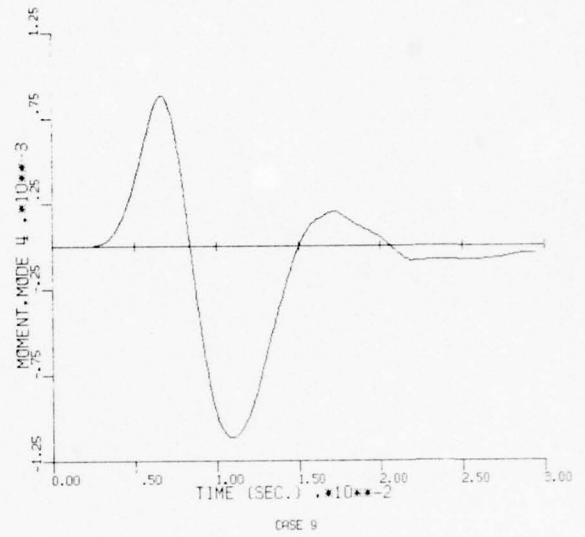
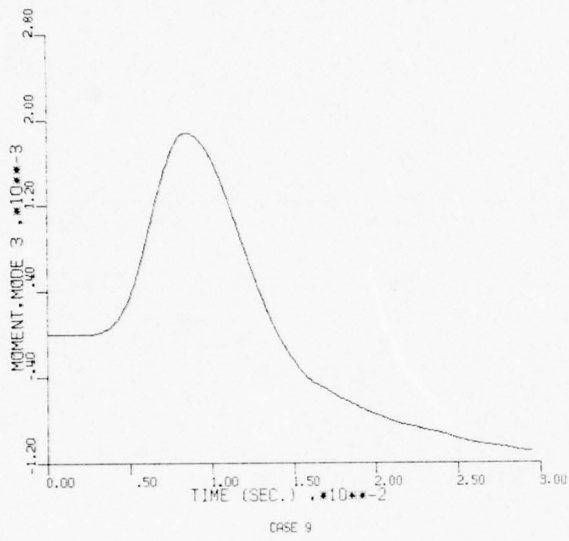


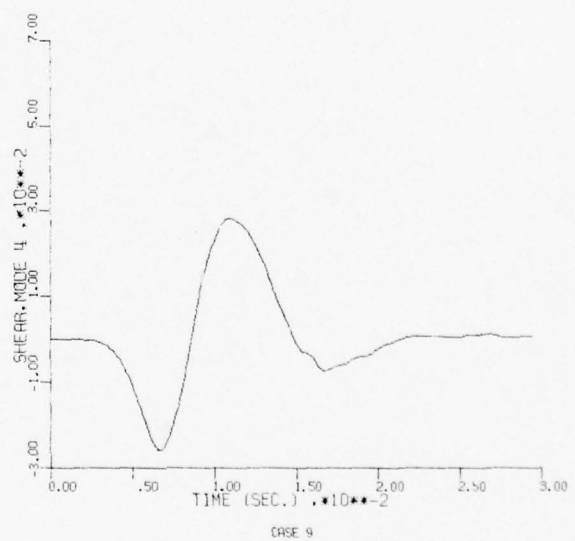
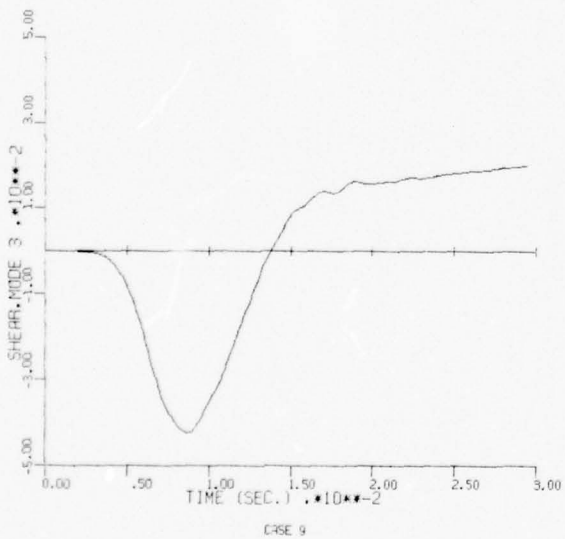
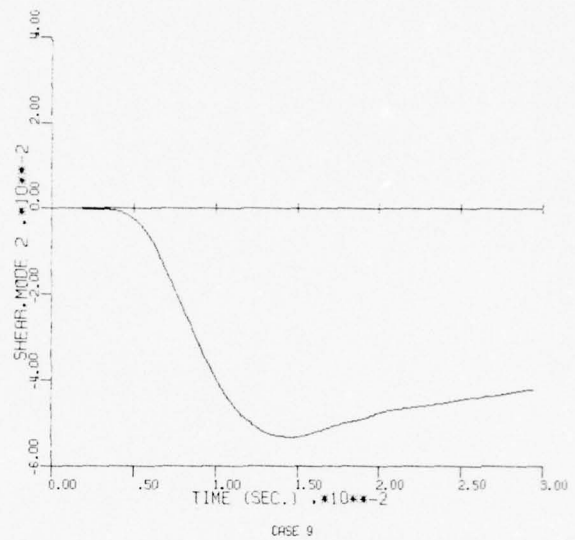
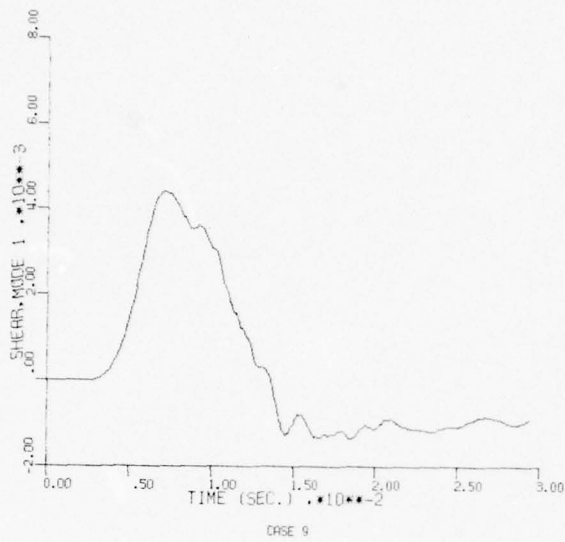




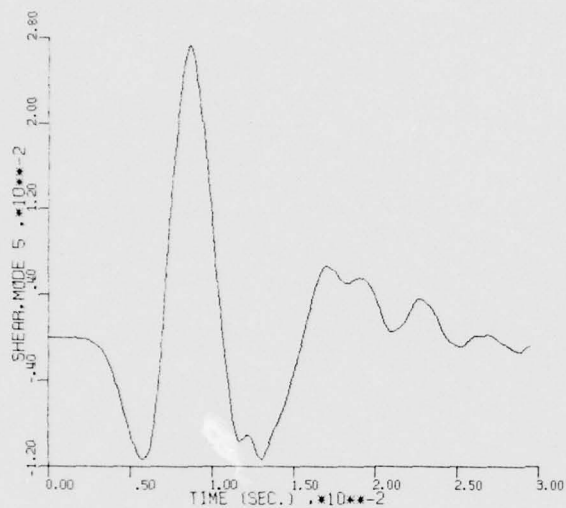




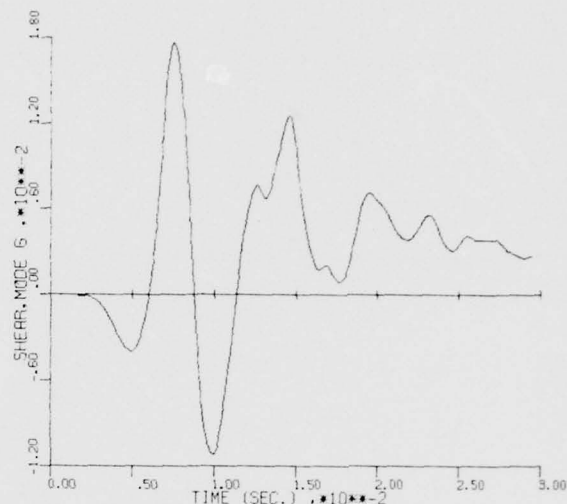




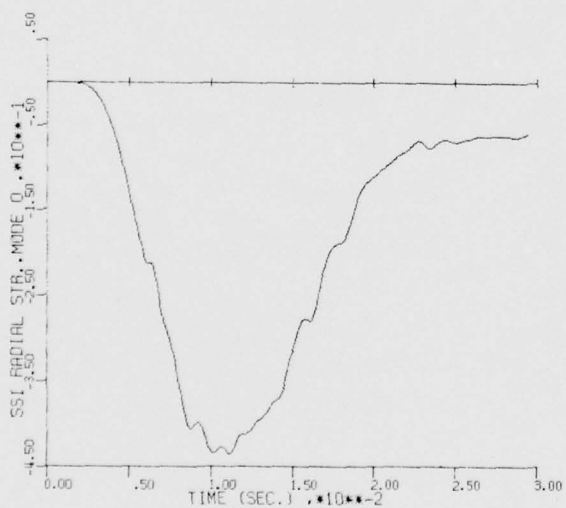




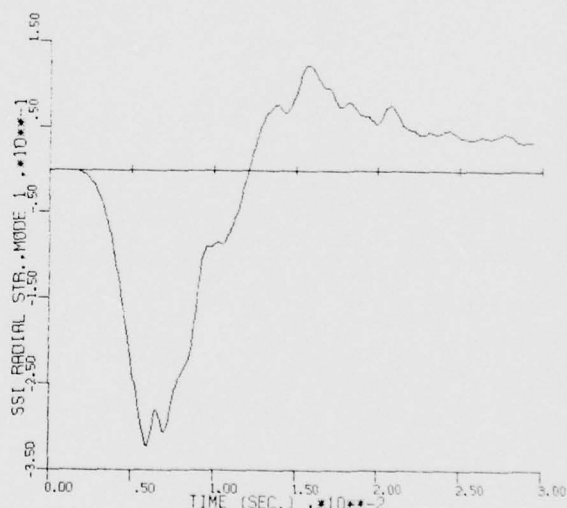
CASE 9



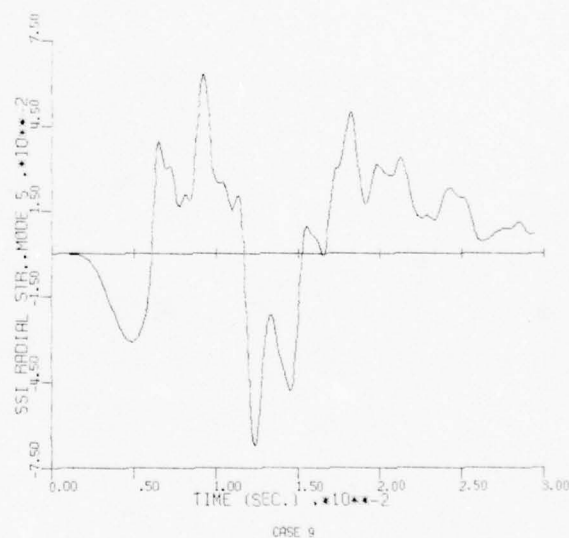
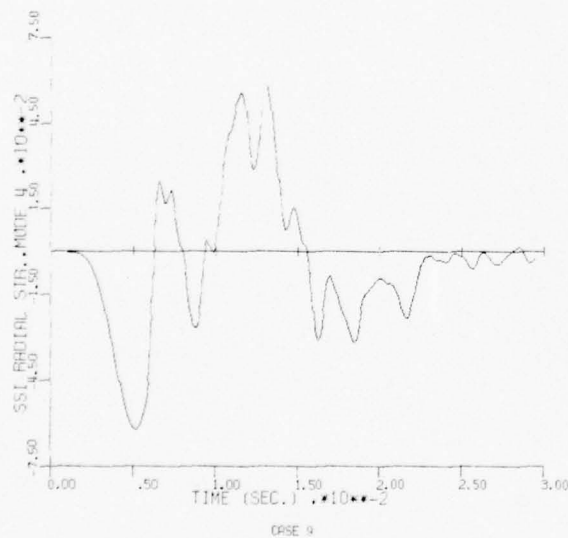
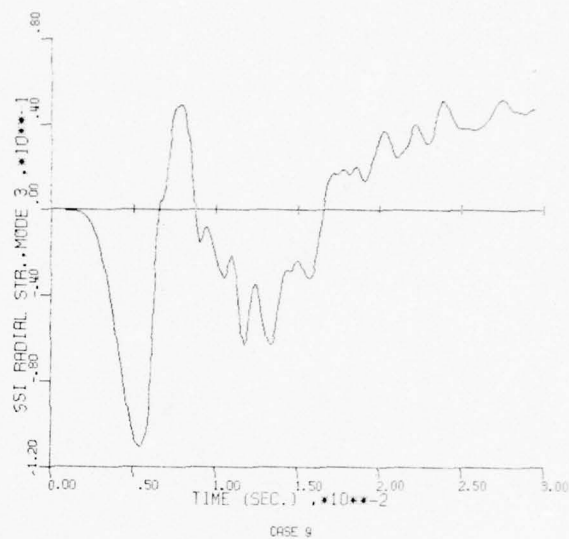
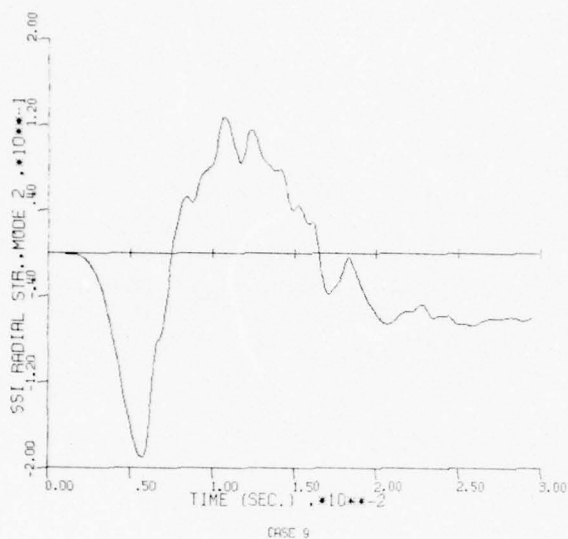
CASE 9

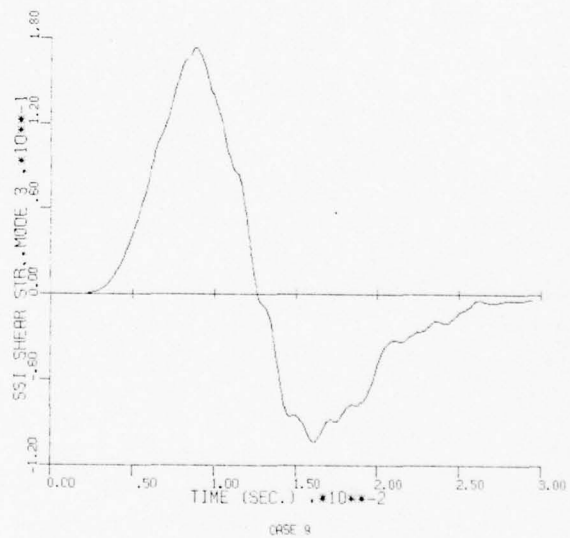
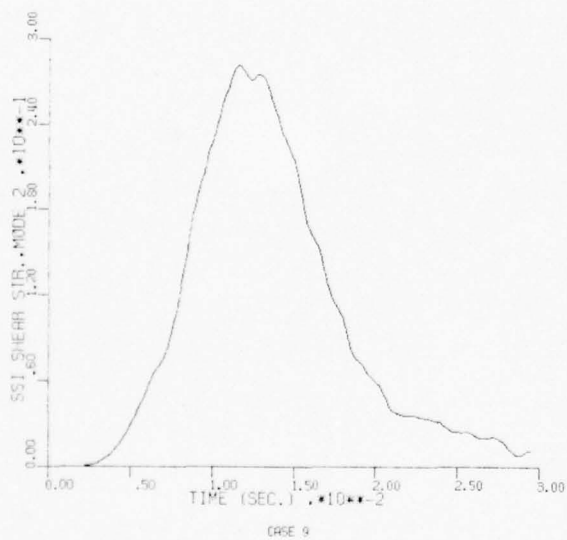
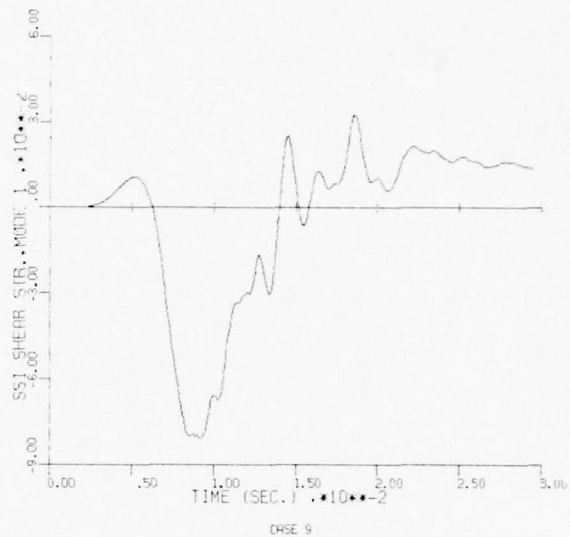
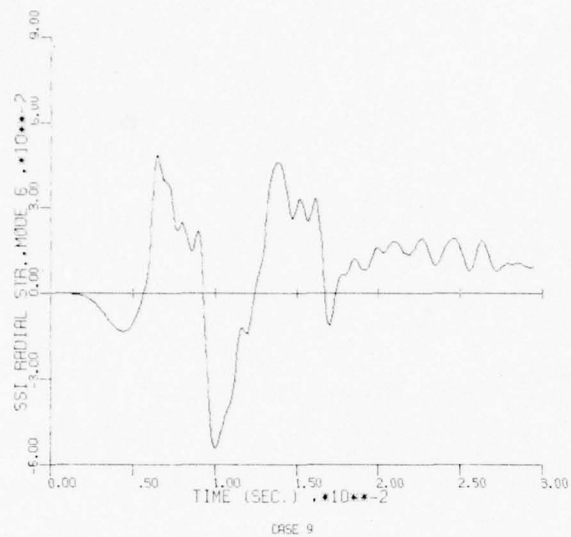


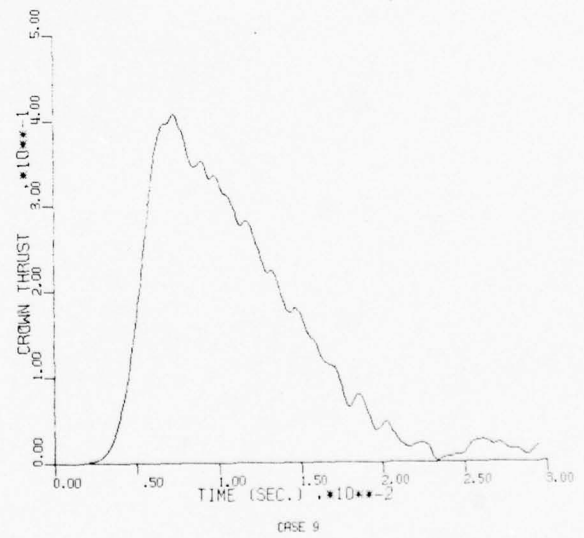
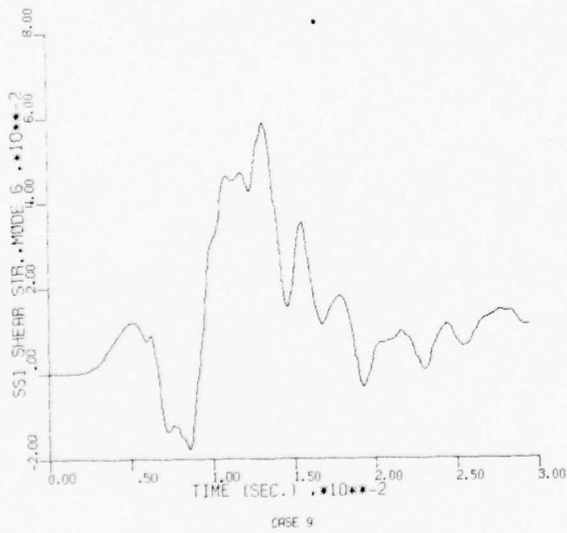
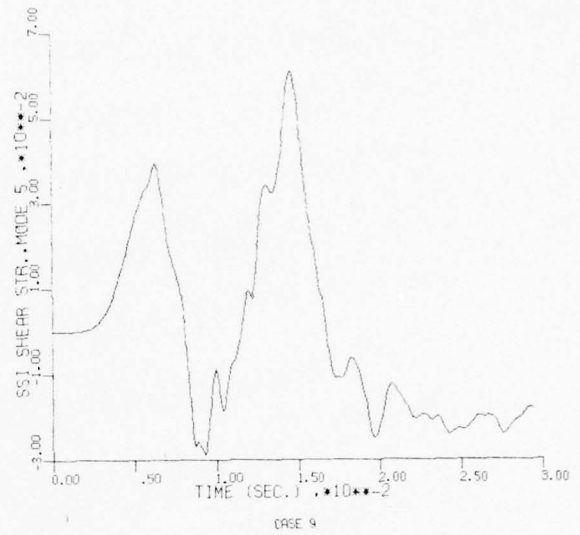
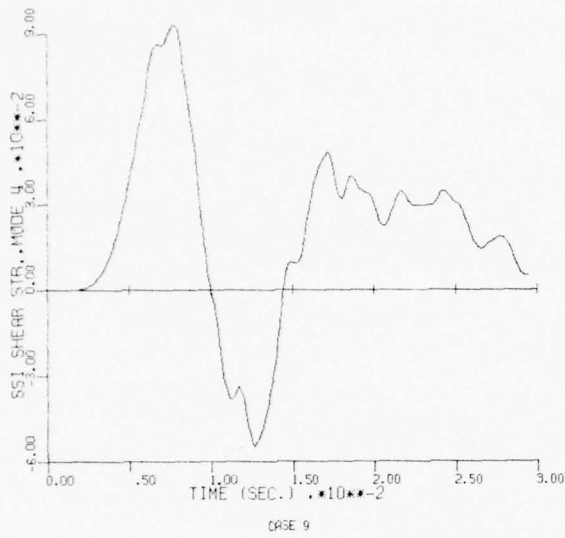
CASE 9

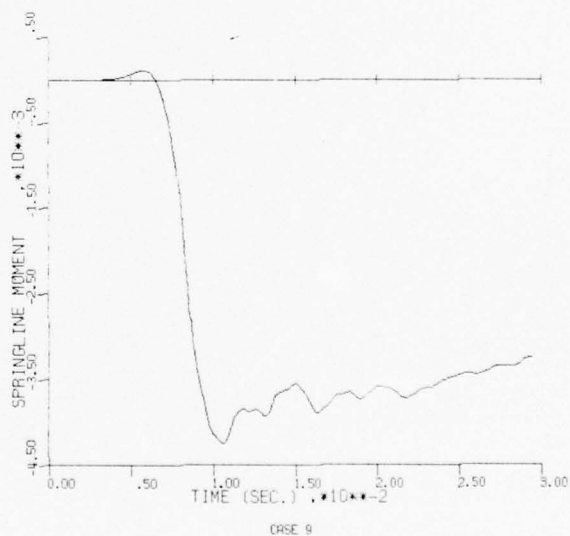
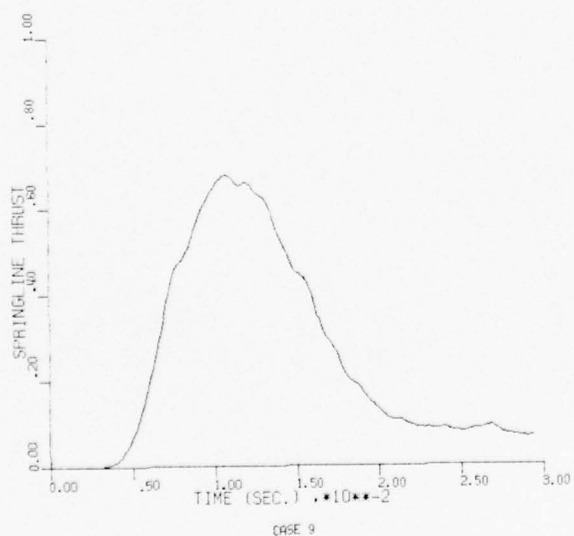
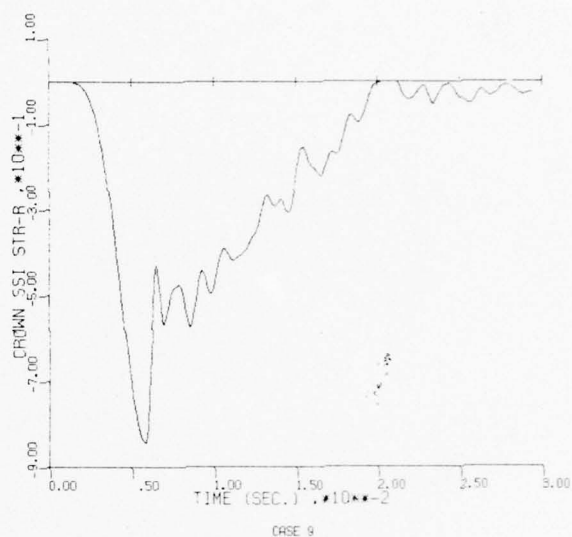
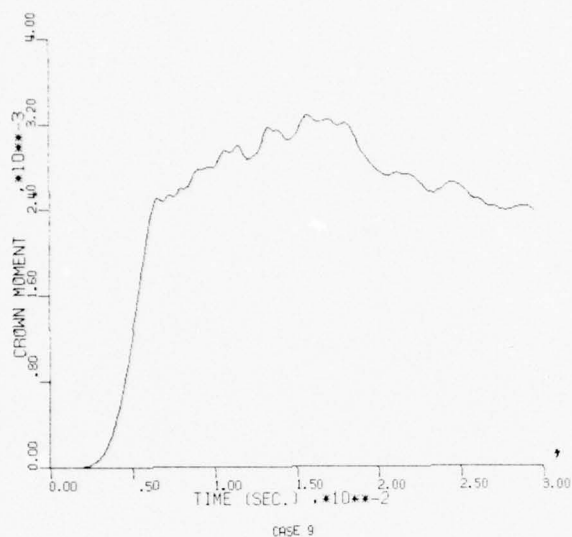


CASE 9

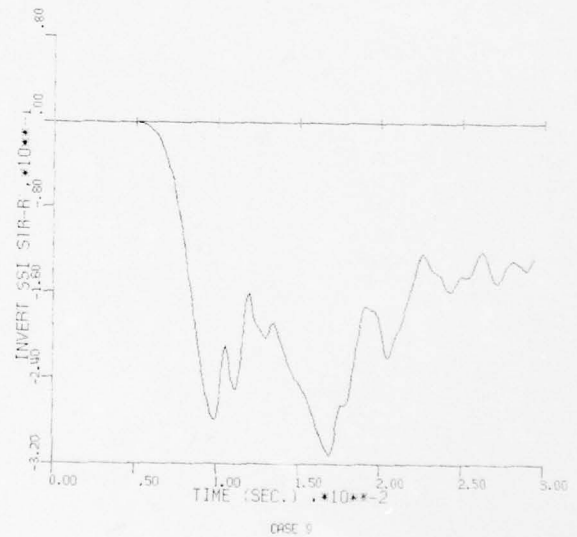
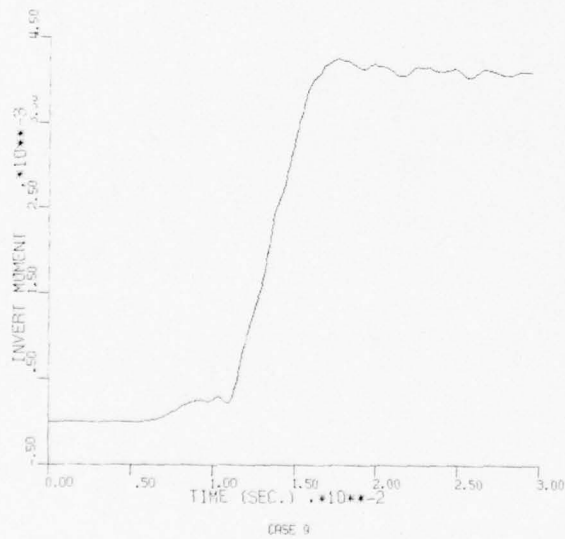
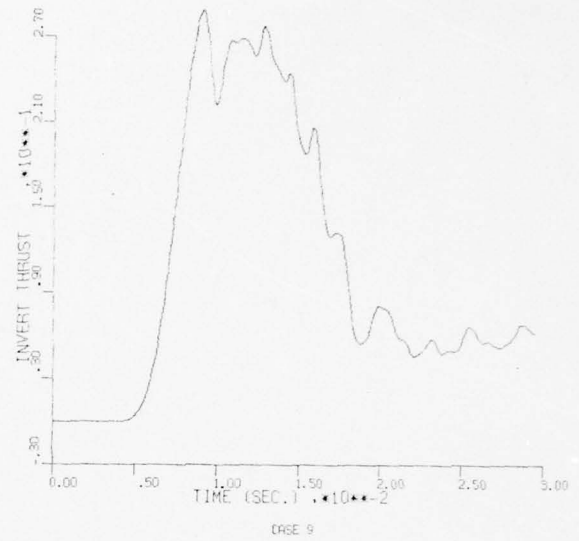
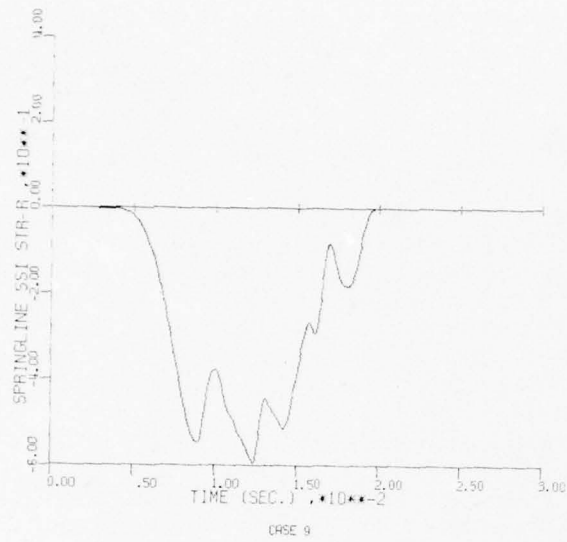












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CASE 10

MIN. VALUUS

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.017342	0.0000000	-.021594	-1.087763	-.561808	-.012915
	2	-.017466	0.0000000	-.020649	-1.104211	-.572965	-.012502
	3	-.017499	-.0000017	-.062846	-.983914	-.489848	-.022701
	4	-.017046	-.0003667	-.075577	-.774481	-.440183	-.013685
	5	-.011359	-.0012149	-.078999	-.701844	-.473390	-.002096
	6	-.004332	-.0019419	-.102261	-.702568	-.510051	0.000000
	7	-.000949	-.0028245	-.078662	-.591719	-.578799	0.000000
	8	0.000000	-.0033156	-.085429	-.726829	-.695683	-.049305
	9	0.000000	-.0037117	-.045330	-.650904	-.593437	-.117339
	10	0.000000	-.0036134	-.078152	-.893475	-.760405	-.235260
	11	0.000000	-.0038337	-.055634	-.622295	-.760615	-.278959
SPR	12	0.000000	-.0035657	-.033398	-.644952	-.783908	-.295229
	13	0.000000	-.0032484	-.031616	-.774160	-.774133	-.394816
	14	0.000000	-.0030218	-.033776	-.624814	-.518744	-.354486
	15	-.000000	-.0030930	-.027059	-.774910	-.579046	-.454702
	16	-.000000	-.0026118	-.032604	-.644865	-.402820	-.327837
	17	-.000000	-.0024681	-.043644	-.757282	-.499310	-.437125
	18	-.000000	-.0019106	-.039463	-.551016	-.303731	-.300446
	19	-.000000	-.0009653	-.047907	-.711447	-.398876	-.398830
	20	0.000000	-.0001365	-.033051	-.543059	-.271974	-.271673
	21	-.000000	-.0001226	-.043655	-.555509	-.355112	-.315394
	22	-.000000	-.0002813	-.033742	-.495262	-.320145	-.282590
	23	-.000000	-.0000000	-.029147	-.461515	-.369342	-.265310
INV	24	-.000000	-.0002040	-.019098	-.379595	-.309822	-.143555

MAX. VALUUS

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.353323	.0025620	.007605	0.000000	0.000000	.147758
	2	.362795	.0025056	.013475	0.000000	0.000000	.299537
	3	.400970	.0025451	0.000000	0.000000	0.000000	.336345
	4	.444942	.0019490	.000238	0.000000	0.000000	.316587
	5	.492800	.0012179	.000103	0.000000	0.000000	.335702
	6	.530866	.0008026	.012059	0.000000	0.000000	.280477
	7	.567920	.0004206	.039954	0.000000	0.000000	.290469
	8	.616632	.0000000	.055588	0.000000	0.000000	.310922
	9	.638917	.0000001	.081575	0.000000	0.000000	.276247
	10	.669667	.0000027	.097450	0.000000	0.000000	.237463
	11	.712925	.0002057	.099871	0.000000	0.000000	.338630
SPR	12	.753754	.0005979	.115640	0.000000	0.000000	.244859
	13	.721283	.0009146	.096815	0.000000	0.000000	.353073
	14	.699333	.0013021	.117485	0.000000	0.000000	.039118
	15	.646266	.0014421	.087106	0.000000	0.000000	.218841
	16	.624554	.0016452	.104557	0.000000	0.000000	.064164
	17	.548833	.0015799	.068201	0.000000	0.000000	.015225
	18	.519179	.0017884	.089361	0.000000	0.000000	.000347
	19	.441617	.0020743	.066147	0.000000	0.000000	.001024
	20	.410478	.0021605	.103919	0.000000	0.000000	0.000000
	21	.359437	.0023863	.069620	0.000000	0.000000	.030752
	22	.342525	.0033276	.054467	0.000000	0.000000	.074957
	23	.351079	.0035656	.029901	0.000000	0.000000	.000000
INV	24	.361807	.0036692	.020646	0.000000	0.000000	.021558

MIN-MAX MODAL AMPLITUDES -- CASE 10

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.90287E-01	-.22041E+00	-.11987E+00	-.48778E-01	-.30258E-01	-.31018E-01
MAX	.46751E+00	.24071E+00	.39489E-01	.61287E-01	.39170E-01	.21677E-01	.16008E-01

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.16291E-03	-.52031E-05	0.	-.86173E-03	-.87224E-03	-.87787E-03	-.70766E-03
MAX	.45031E-07	.15453E-04	.29239E-02	.14229E-02	.81326E-03	.53658E-03	.54982E-03

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.22159E-02	-.44254E-01	-.35603E-01	-.24439E-01	-.19633E-01	-.24327E-01
MAX	0.	.39187E-02	0.	.17948E-01	.24817E-01	.29133E-01	.27340E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.46257E+00	-.34593E+00	-.26964E+00	-.19254E+00	-.12456E+00	-.13337E+00	-.13669E+00
MAX	0.	.14273E+00	.14926E+00	.10594E+00	.89440E-01	.98692E-01	.81056E-01

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.56028E-01	0.	-.14118E+00	-.79917E-01	-.50953E-01	-.32297E-01
MAX	0.	.53529E-01	.30779E+00	.17515E+00	.84439E-01	.91821E-01	.10606E+00

# CASE 10

## CROWN THRUST

SRSS	MODE 0	MODES 0-1	MODAL HISTORY/INPUT	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
MIN.	.001745	.001123	.000874	.000215	.000427	.000408	.89502E-02	VARIABLE
MAX.	1.323255	1.118921	.944669	1.239434	.959981	1.020285	-.17342E-01	
		1.285963	1.077877	.975392	.970604	.988514	.35332E+00	

## CROWN MOMENT

SRSS	MODE 0	MODES 0-1	MODAL HISTORY/INPUT	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
MIN.	.046310	.023233	.001800	.003179	.002063	.000843	.10739E-03	VARIABLE
MAX.	-.000163	0.000000	0.000000	0.000000	0.000000	0.000000	0.	
	.000018	1.097797	1.110701	1.069236	1.089762	1.028123	.25620E-02	

## CROWN SSL STR-R

SRSS	MODE 0	MODES 0-1	MODAL HISTORY/INPUT	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
MIN.	.001552	.000572	.000780	.004460	.000037	.001808	.16607E-01	VARIABLE
MAX.	.425250	.589184	.902129	1.003119	1.056728	1.072054	-.10878E+01	
	0.000000	.015089	.021598	0.000000	.001978	.004832	0.	

## SPRINGLINE THRUST

SRSS	MODE 0	MODES 0-1	MODAL HISTORY/INPUT	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
MIN.	.000247	.000434	.000613	.000310	.000210	.000201	.19457E-01	VARIABLE
MAX.	0.000000	0.000000	-.000003	-.000017	-.000055	-.000000	0.	
	.620277	.623720	.915831	.961540	.954490	.977273	.75375E+00	



SPRINGLINE MOMLNT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .052811 .052811 .006313 .002081 .002151 .000639 .000399  
MIN. .045689 .045689 .840561 .820507 .933889 .894463 .970908  
MAX. .000075 .000114 0.000000 0.000000 .268615 .496573 .632887  
INPUT  
VARIABLE  
.12634E-03  
-.35657E-02  
.59791E-03

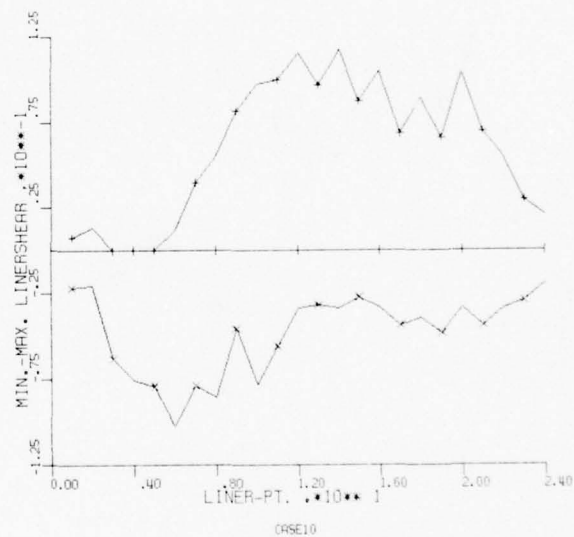
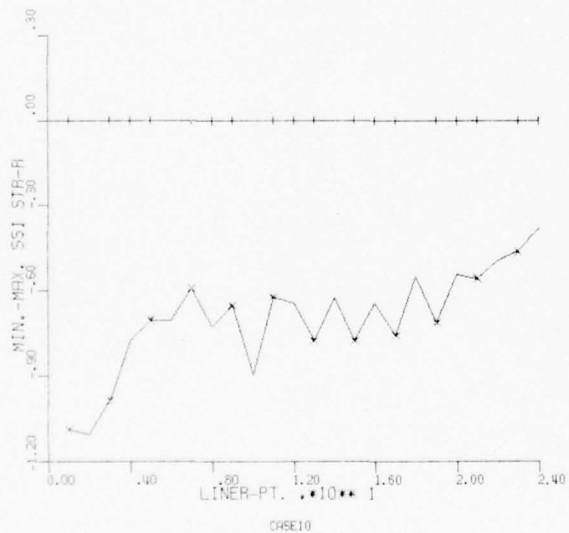
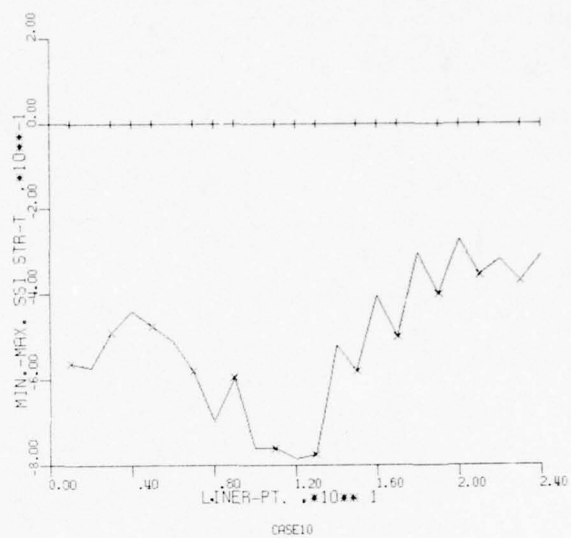
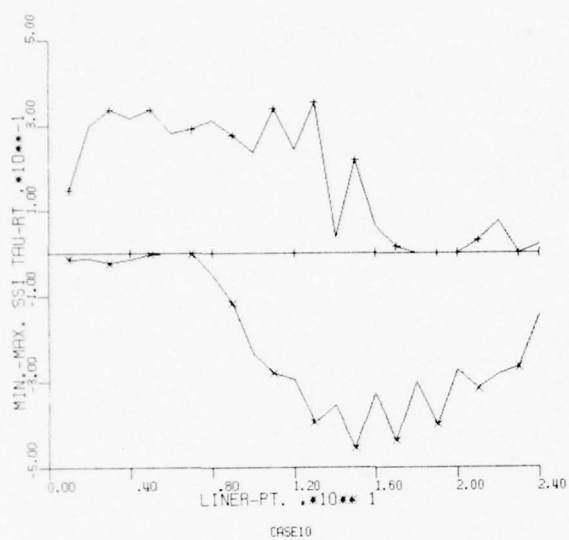
SPRINGLINE SSI STR-R  
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MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .005012 .004856 .004908 .003267 .000860 .000824 .002810  
MIN. .717218 .721172 .915934 .907852 .929821 .939663 .982366  
MAX. 0.000000 0.000000 .064637 .101592 .008746 .032782 .005123  
INPUT  
VARIABLE  
.14808E-01  
-.64495E+00  
0.

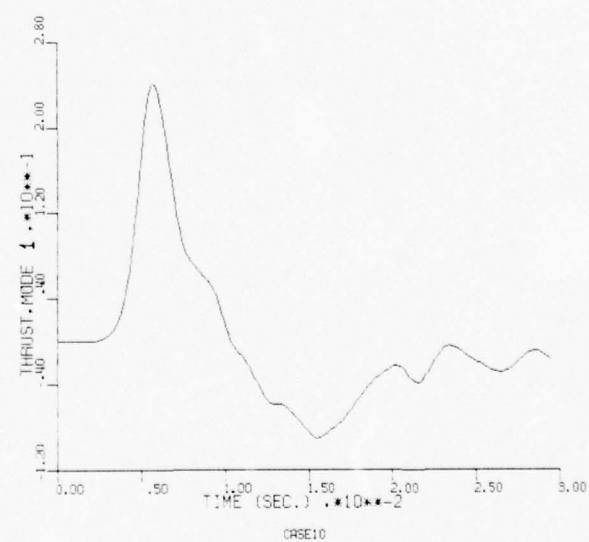
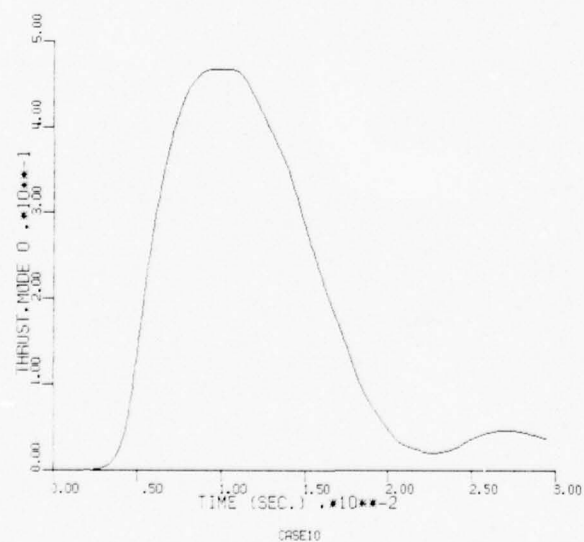
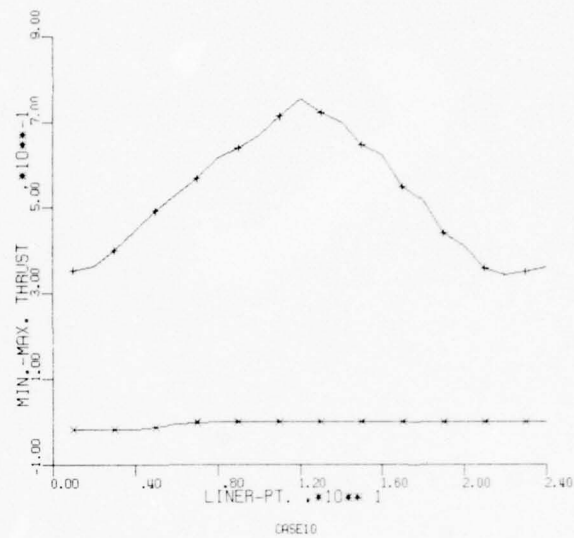
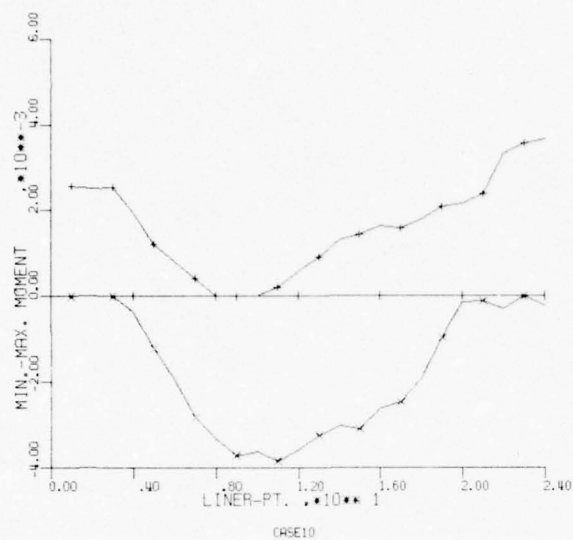
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SRSS .008074 .001830 .001487 .001738 .001075 .001721 .001741  
MIN. 0.000000 -.038573 -.026110 -.000002 -.010868 -.000000 -.001708  
MAX. 1.292224 1.325428 .830869 .998354 1.040130 .995363 .970596  
INPUT  
VARIABLE  
.88988E-02  
-.16918E-47  
.36181E+00

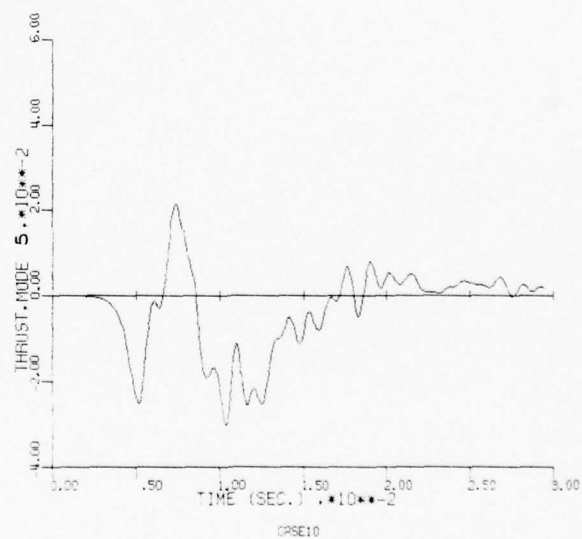
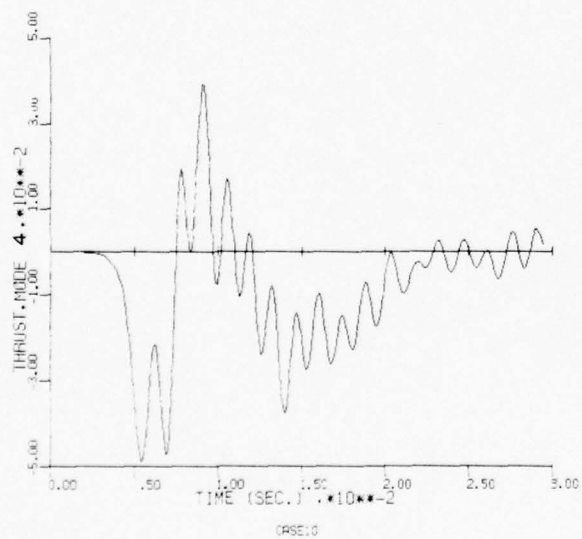
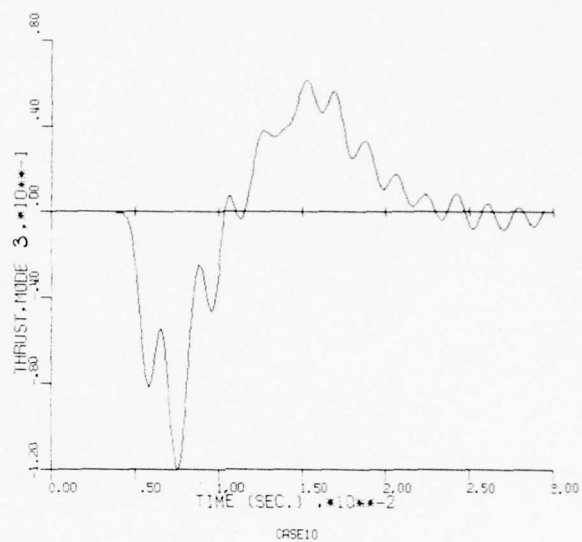
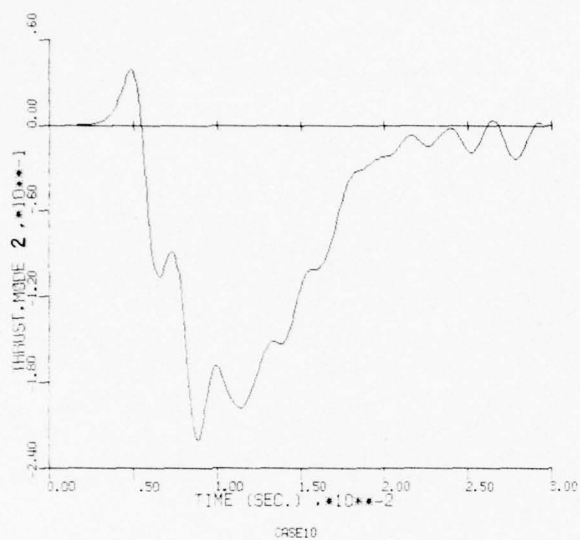
INVERT MOMLNT  
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MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .075860 .075849 .024223 .005643 .001948 .001943 .002849  
MIN. .798449 .805235 0.000000 2.860966 2.219848 1.233003 1.428275  
MAX. .000012 0.000000 .769046 .976395 1.082625 1.107407 1.075652  
INPUT  
VARIABLE  
.14469E-03  
-.20404E-03  
.36692E-02

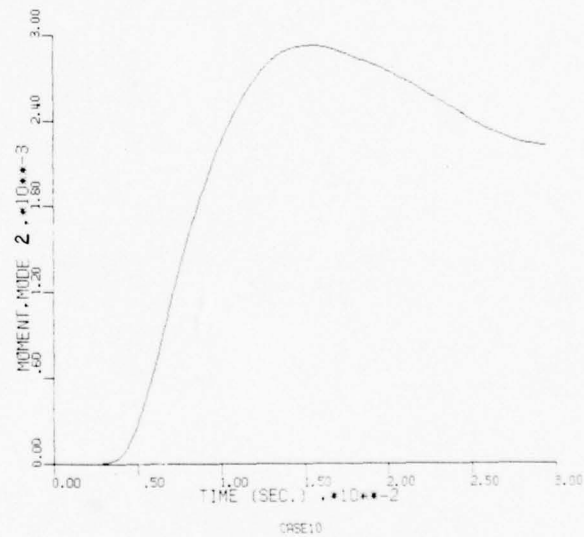
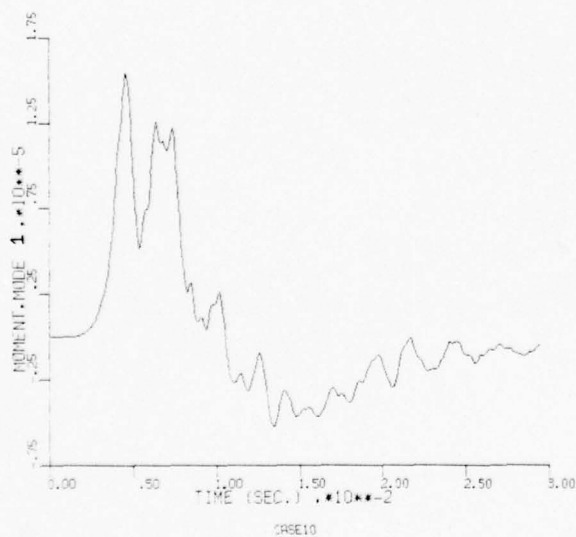
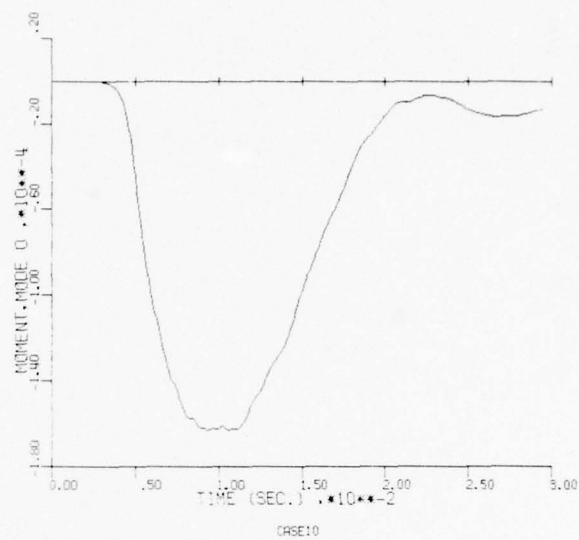
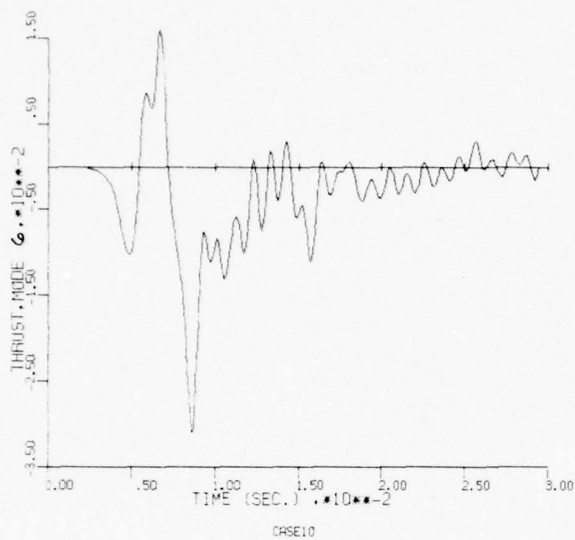
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .026954 .023536 .009521 .002318 .008243 .015364 .018215  
MIN. 1.218592 1.397097 1.141954 1.019879 1.163615 1.169411 1.151103  
MAX. 0.000000 .155632 .040088 .075277 .047340 .023256 .029651  
INPUT  
VARIABLE  
.10316E-01  
-.37959E+00  
0.

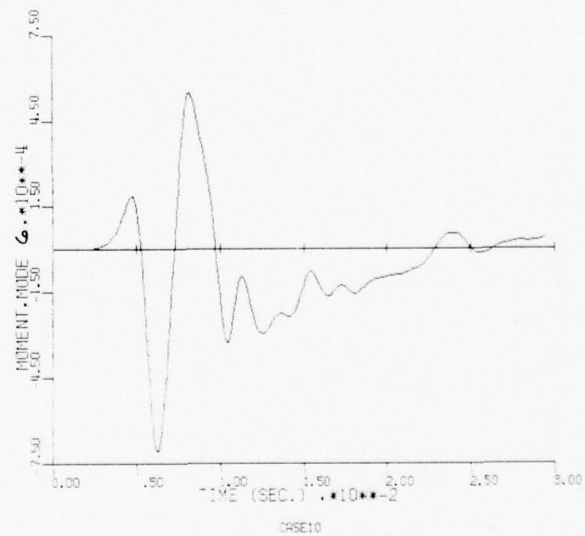
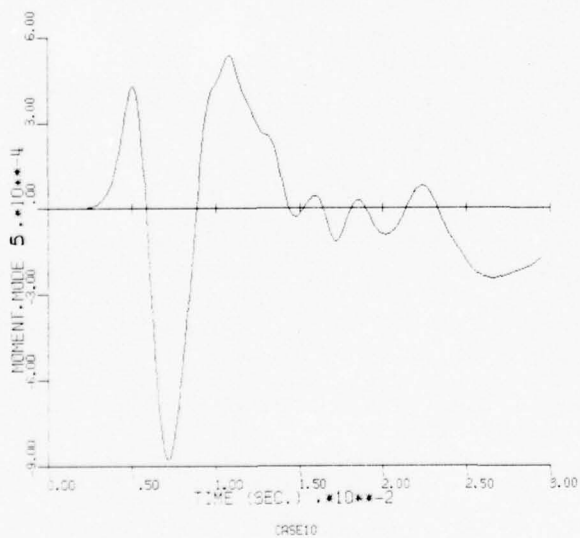
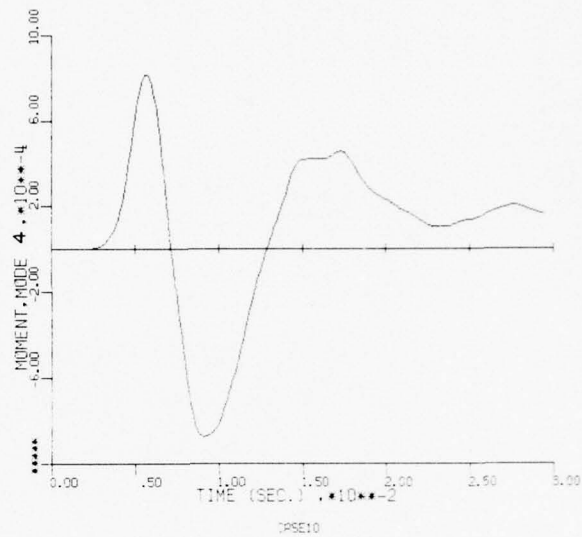
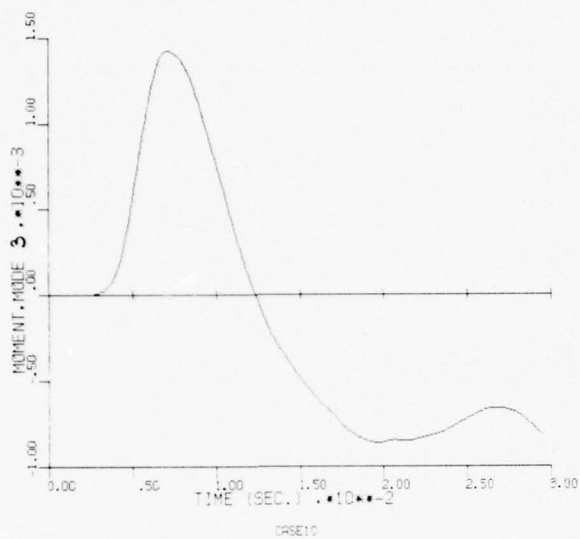




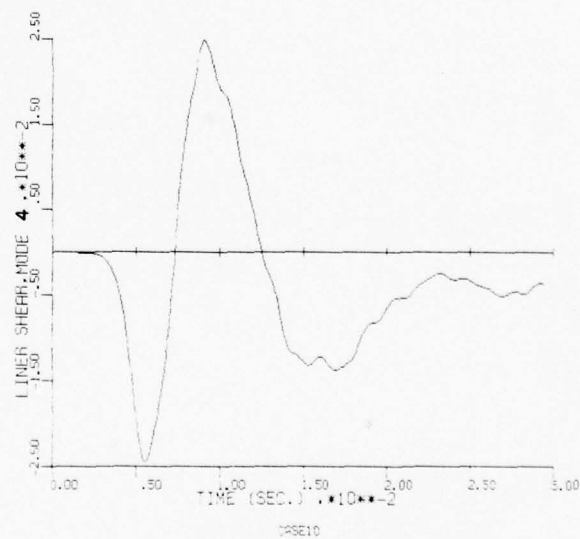
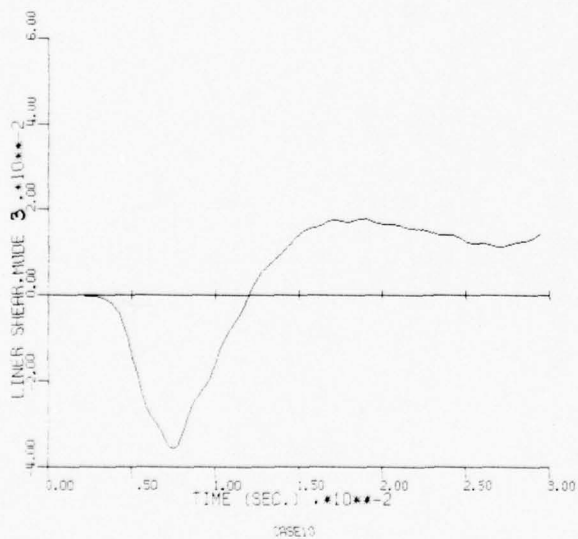
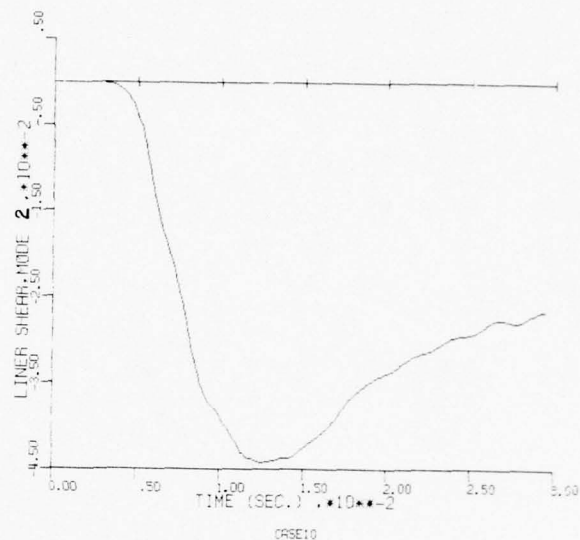
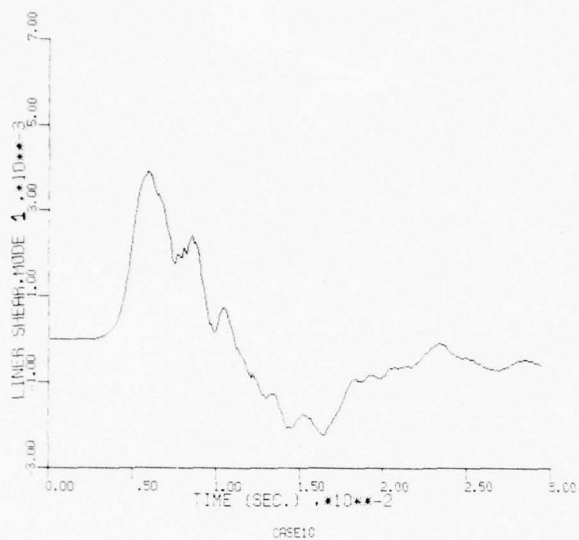


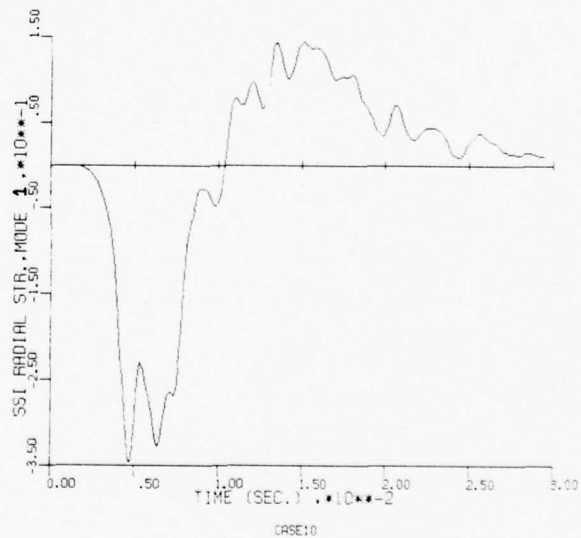
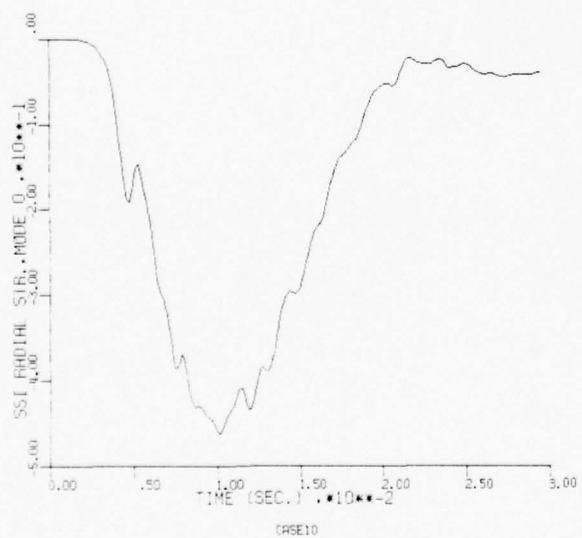
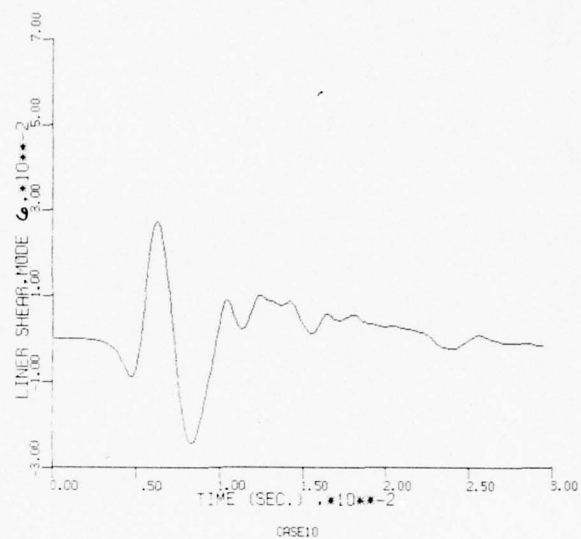
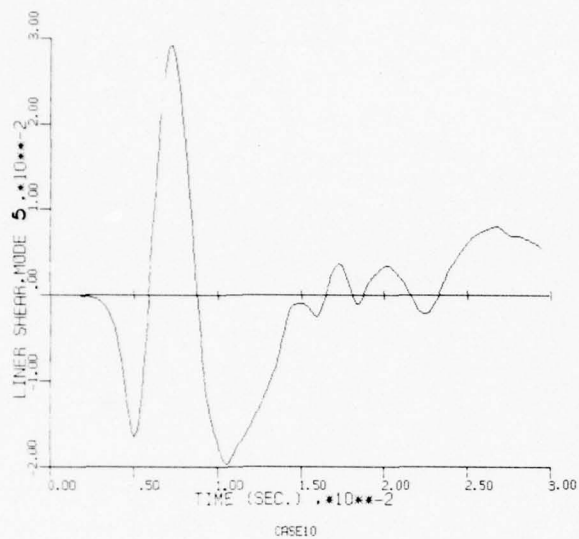


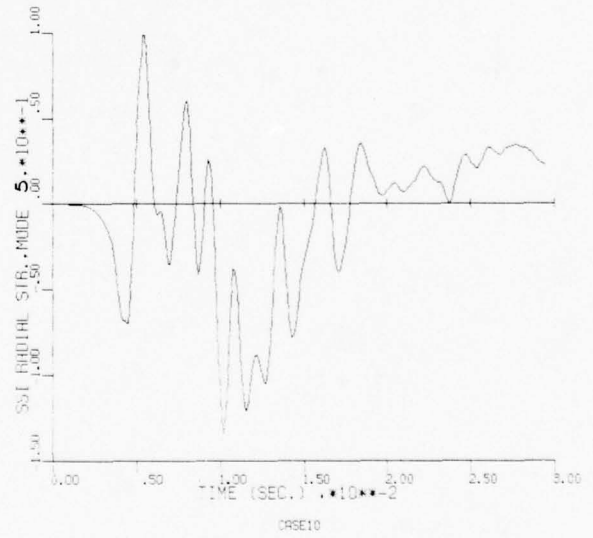
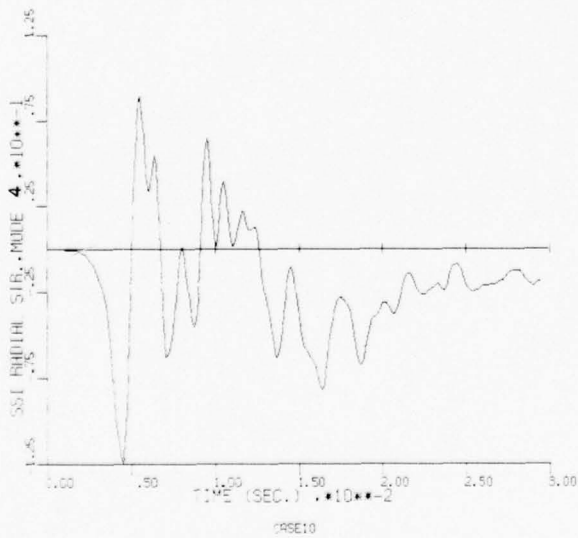
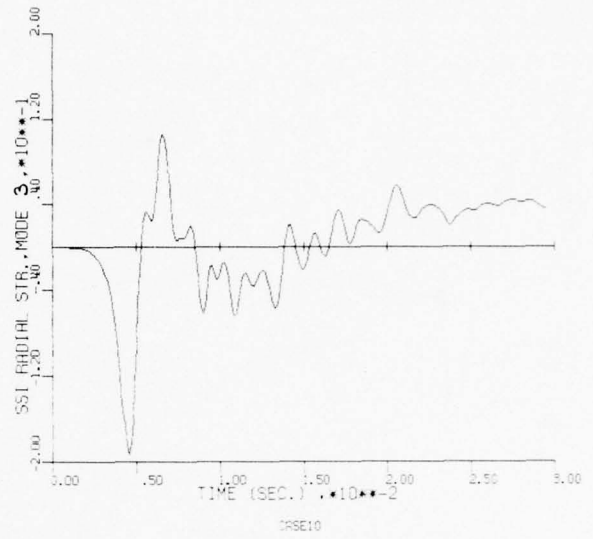
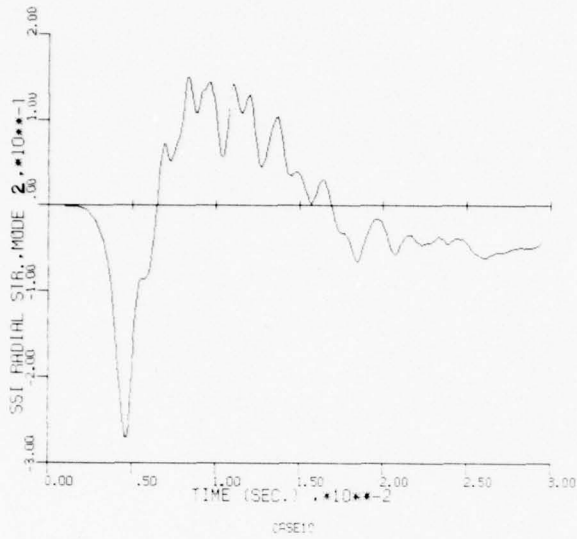


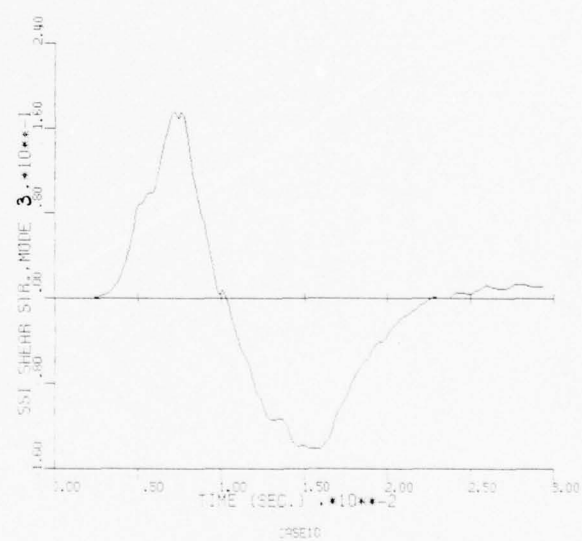
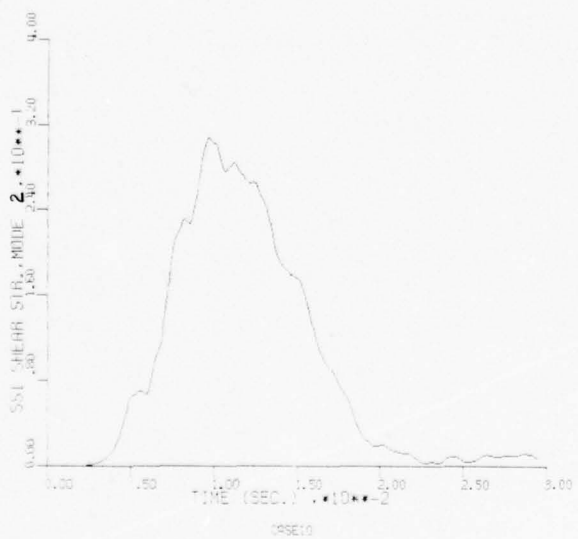
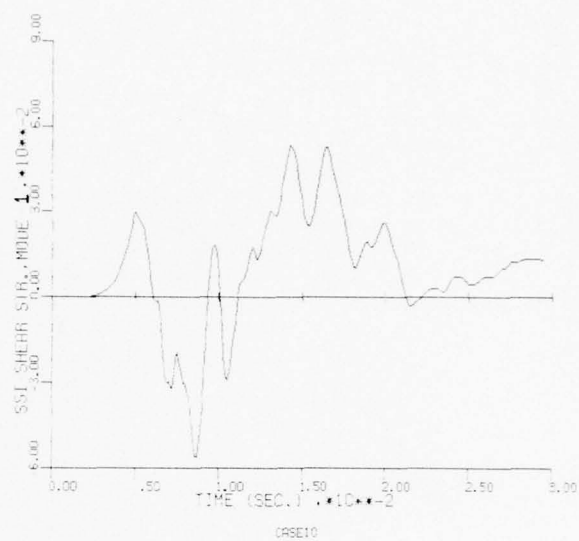
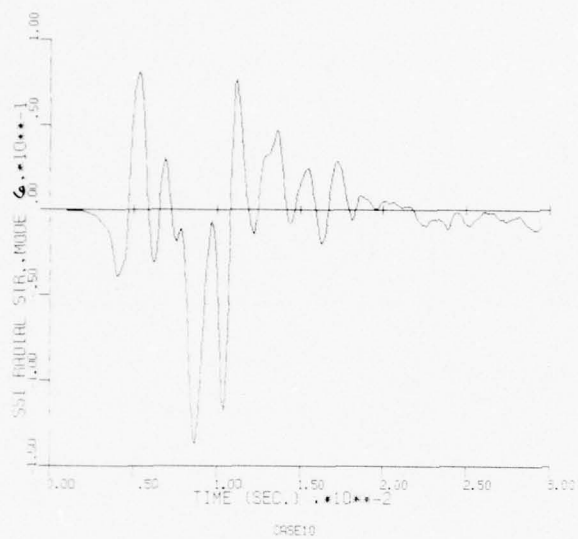


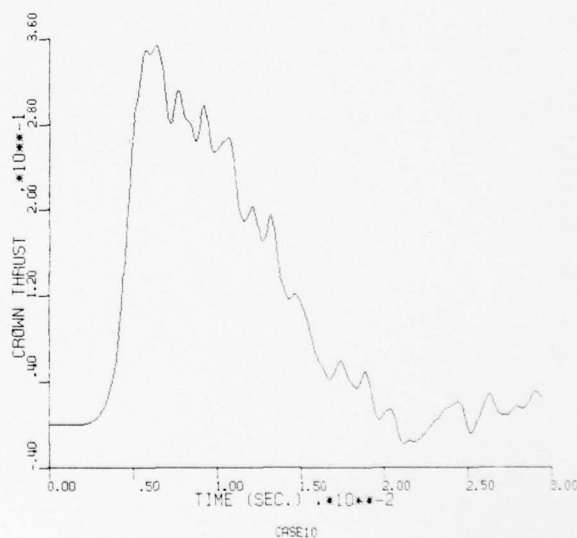
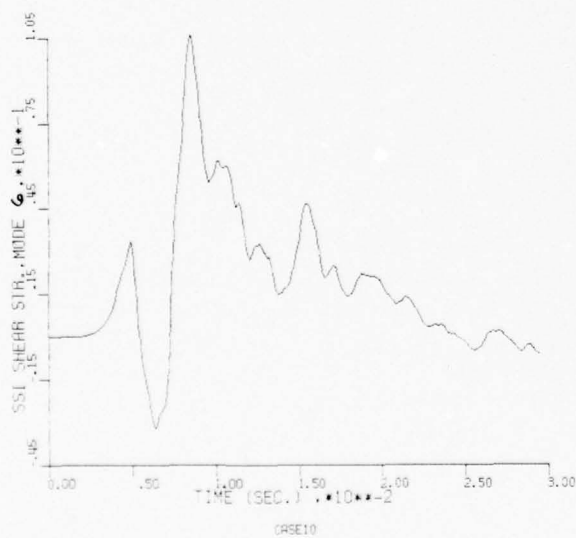
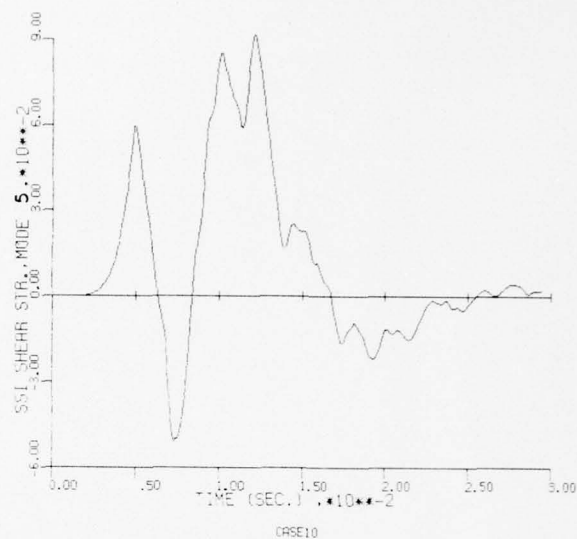
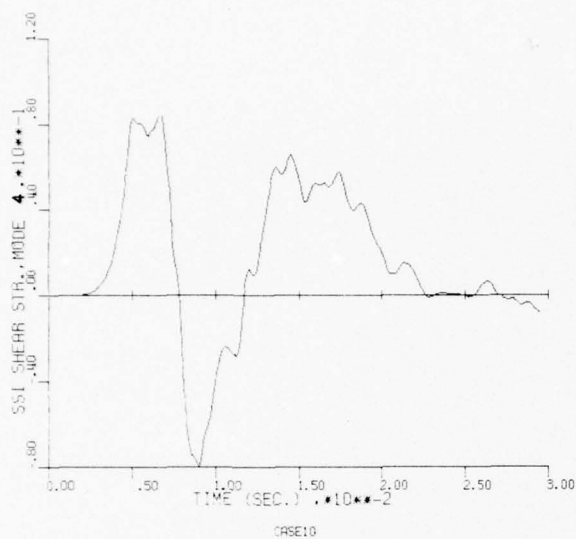




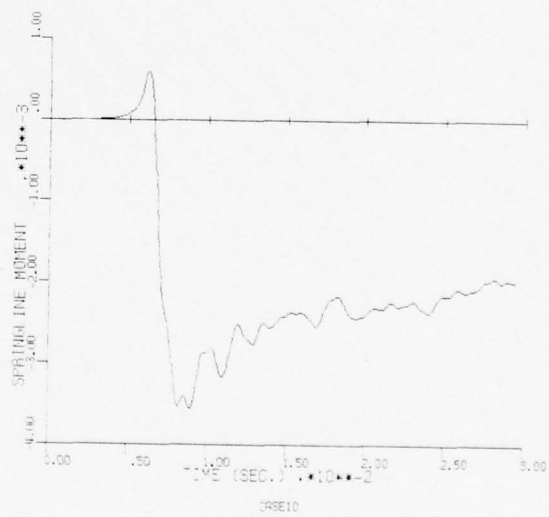
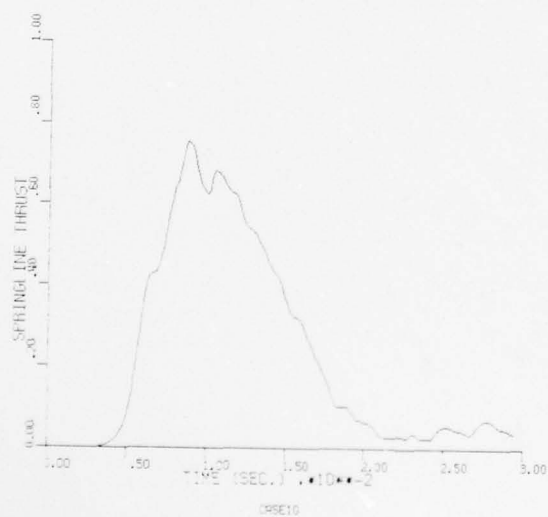
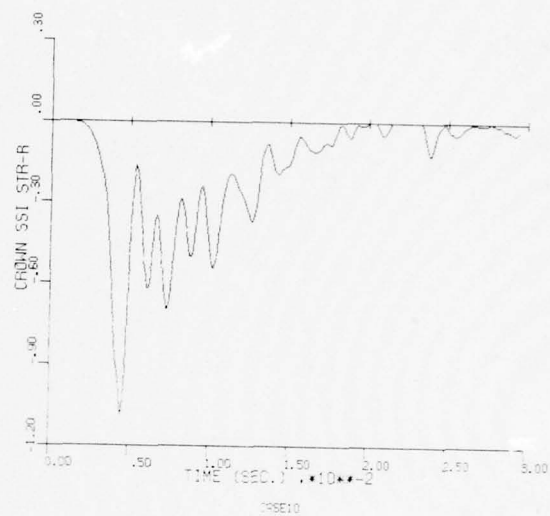
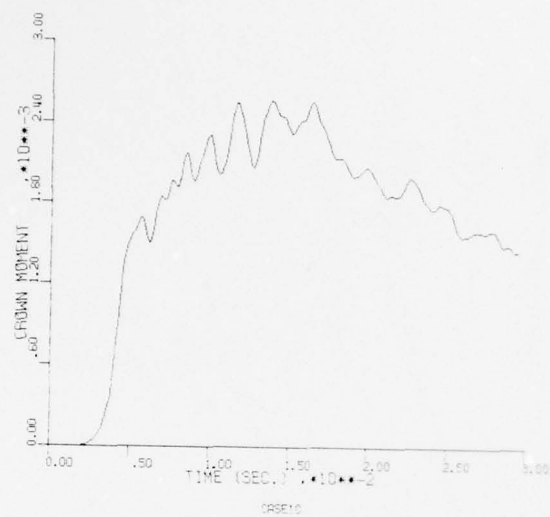


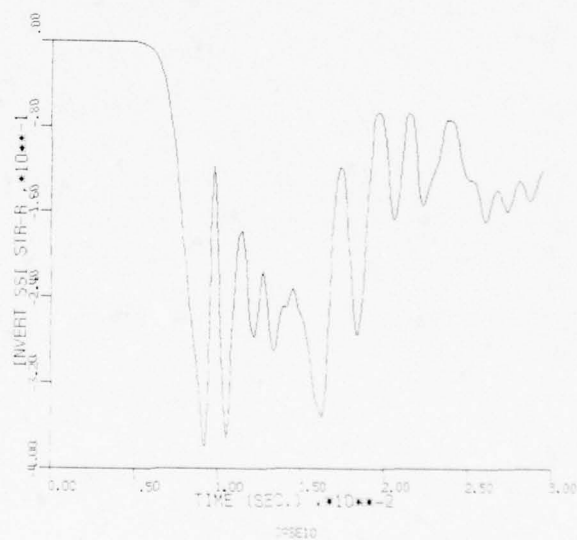
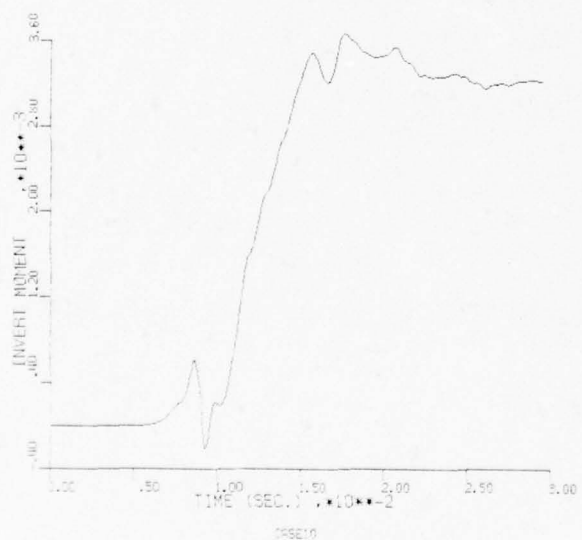
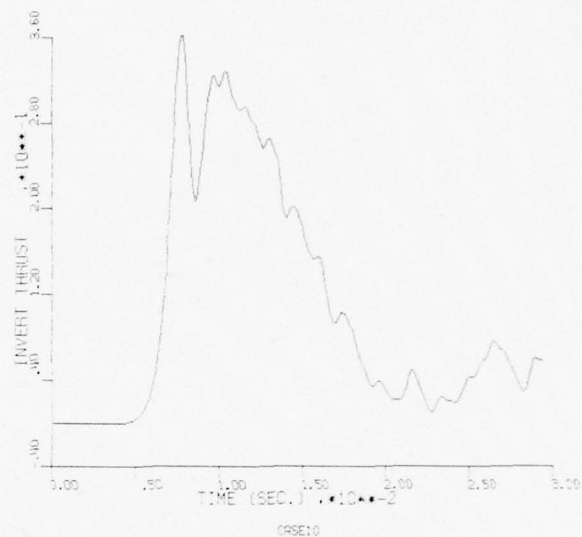
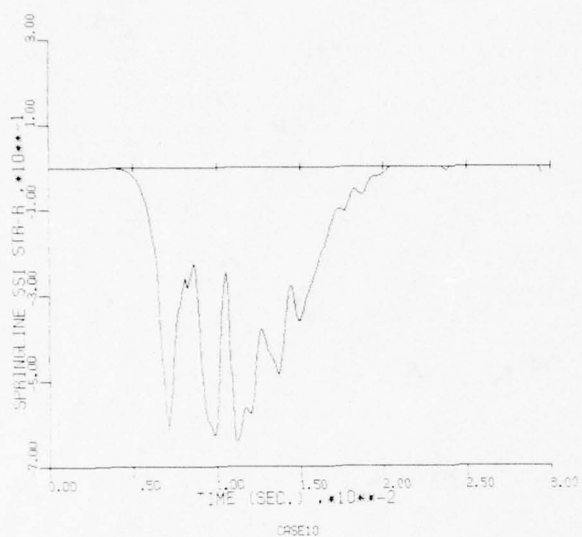












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CASE 11

MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-R1
CR	1	0.000000	0.000000	-.021146	-.893676	-.460102	-.002481
	2	0.000000	0.000000	-.043780	-.865577	-.425281	-.039100
	3	0.000000	-.000001	-.075370	-.823496	-.505174	-.175932
	4	0.000000	-.0001768	-.087202	-.769281	-.460340	-.217417
	5	0.000000	-.0008818	-.104452	-.726006	-.485933	-.158907
	6	0.000000	-.0018595	-.101402	-.777088	-.513584	-.171187
	7	0.000000	-.0028904	-.089577	-.676833	-.481490	-.007537
	8	0.000000	-.0037514	-.094275	-.827216	-.544907	-.047729
	9	0.000000	-.0044571	-.070401	-.779641	-.523621	-.135276
	10	0.000000	-.0050378	-.080172	-.931322	-.628139	-.229555
	11	0.000000	-.0051440	-.045225	-.826940	-.605106	-.291363
SPR	12	0.000000	-.0052040	-.060303	-.858949	-.629872	-.334269
	13	0.000000	-.0056563	-.021471	-.922180	-.728432	-.397745
	14	0.000000	-.0057363	-.031827	-.795899	-.694424	-.394970
	15	-.000000	-.0062520	-.009289	-1.020735	-.684522	-.463197
	16	-.000000	-.0059979	-.001301	-.774121	-.565284	-.437259
	17	-.000000	-.0051923	-.004754	-.870286	-.595227	-.545998
	18	-.000000	-.0032831	-.005507	-.727750	-.431913	-.424584
	19	-.000000	-.0011385	-.015054	-.830036	-.597288	-.556639
	20	0.000000	-.0000000	-.014363	-.694672	-.426045	-.410626
	21	-.000000	-.0000000	-.023491	-.912382	-.519129	-.494352
	22	-.000000	-.0000000	-.030260	-.747001	-.409577	-.384125
	23	-.000000	-.0000000	-.023723	-.801249	-.466414	-.343292
INV	24	-.000000	-.0000000	-.010013	-.727787	-.396174	-.175755

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-R1
CR	1	.454297	.0058809	.013052	0.000000	0.000000	.282396
	2	.486709	.0056664	.007671	0.000000	0.000000	.358365
	3	.538279	.0049236	0.000000	0.000000	0.000000	.425201
	4	.599644	.0035618	0.000000	0.000000	0.000000	.413889
	5	.659457	.0020268	.000098	0.000000	0.000000	.420736
	6	.737790	.0007761	.001762	0.000000	0.000000	.436733
	7	.796355	.0000000	.011357	0.000000	0.000000	.421951
	8	.873542	.0000000	.021101	0.000000	0.000000	.464614
	9	.915109	.0000001	.040186	0.000000	0.000000	.453773
	10	.944149	.0000026	.055377	0.000000	0.000000	.476986
	11	.997976	.0000342	.077008	0.000000	0.000000	.479823
SPR	12	1.050667	.0001085	.093147	0.000000	0.000000	.366579
	13	1.042348	.0002787	.088418	0.000000	0.000000	.404108
	14	1.043131	.0005354	.099026	0.000000	0.000000	.130022
	15	.976404	.0008371	.093901	0.000000	0.000000	.190383
	16	.941273	.0013241	.112404	0.000000	0.000000	.090488
	17	.856251	.0016716	.084286	0.000000	0.000000	.127920
	18	.799730	.0020105	.143847	0.000000	0.000000	.065934
	19	.686776	.0024632	.128629	0.000000	0.000000	.141661
	20	.649579	.0027483	.158241	0.000000	0.000000	.154645
	21	.577571	.0043602	.114704	0.000000	0.000000	.034097
	22	.539568	.0061189	.096696	0.000000	0.000000	.000000
	23	.490690	.0072159	.047627	0.000000	0.000000	.000000
INV	24	.486871	.0076298	.017129	0.000000	0.000000	.000000

MIN-MAX MODAL AMPLITUDES -- CASE 11

LINER THRUST PLAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.11261E+00	-.34160E+00	-.11055E+00	-.42831E-01	-.25061E-01	-.27833E-01
MAX	.69351E+00	.32034E-01	.80004E-01	.17650E-01	.12872E-01	.64798E-02
LINER MOMENT PLAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN -.24234E-03	-.46340E-05	0.	-.16632E-02	-.12260E-02	-.88589E-03	-.54085E-03
MAX .42021E-07	.13378E-04	.63665E-02	.21602E-02	.11563E-02	.46139E-03	.23005E-03
LINER SHEAR PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.35647E-02	-.95140E-01	-.48974E-01	-.29762E-01	-.15319E-01	-.95497E-02
MAX 0.	.49520E-02	0.	.34319E-01	.29196E-01	.27787E-01	.17780E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN -.69611E+00	-.34908E+00	-.19837E+00	-.11406E+00	-.12990E+00	-.10018E+00	-.53402E-01
MAX 0.	.14239E+00	.14520E+00	.80757E-01	.67061E-01	.60128E-01	.49409E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.94116E-01	-.70395E-01	-.20647E+00	-.52733E-01	-.51287E-01	-.11226E-01
MAX 0.	.88276E-01	.50468E+00	.21256E+00	.10935E+00	.77270E-01	.12982E+00



CASE 11

CROWN THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODES 0-2 MODAL HISTORY/INPUT MODES 0-3 VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .005771 .004300 .002104 .000112 .000003 .001042 .000735  
MIN. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. 1.526506 1.001462 1.259881 1.096567 1.006323 1.011480 1.009565  
INPUT  
VARIABLE  
.12578E+01  
0.  
.45430E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODES 0-2 MODAL HISTORY/INPUT MODES 0-3 VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .038978 .039009 .010141 .004270 .001922 .002565 .000840  
MIN. -.000242 -.000244 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. .000007 .000192 1.036518 .895942 1.059104 1.098320 1.014601  
INPUT  
VARIABLE  
.18353E+03  
0.  
.58809E+02

CROWN SST STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODES 0-2 MODAL HISTORY/INPUT MODES 0-3 VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .001095 .008388 .000367 .004805 .001516 .002288 .003567  
MIN. .778928 .862484 .858752 .966527 1.019013 1.036021 1.029867  
MAX. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.22728E+01  
-.89368E+00  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODES 0-2 MODAL HISTORY/INPUT MODES 0-3 VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .001302 .001000 .000007 .000209 .000261 .000049 .000043  
MIN. 0.000000 0.000000 -.000001 -.000003 -.000017 -.000053 -.000000  
MAX. .660070 .050651 .968723 .965467 .967824 .905541 .983071  
INPUT  
VARIABLE  
.27447E+01  
0.  
.10507E+01



SPRINGLINE MOMENT

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .040428    .009820    .006889    .000559    .000336    .001427
MIN.    .046568    1.254306    1.220461    1.053210    1.048101    .995718
MAX.    .000387    0.000000    0.000000    .797456    1.627749    1.096973
VARIABLE *****
INPUT    .17953E-03
VARIABLE .52040E-02
        .10854E-03

```

SPRINGLINE SSI STR-R

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .009796    .000168    .000946    .004510    .004227    .005612
MIN.    .810420    .953010    .942952    1.019434    1.032949    1.041972
MAX.    0.000000    0.023704    .041212    0.000000    0.000000    .000041
VARIABLE *****
INPUT    .20970E-01
VARIABLE -.85895E+00
        0.

```

INVERT THRUST

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .006350    .004104    .002126    .002024    .001090    .000815
MIN.    0.000000    0.000000    -.000002    -.002625    -.000000    -.000445
MAX.    1.424430    1.555766    1.028081    .982196    1.000448    .988694
VARIABLE *****
INPUT    .14086E-01
VARIABLE -.16899E-47
        .48687E+00

```

INVERT MOMENT

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .048050    .011086    .000255    .004399    .003916    .002620
MIN.    -.000242    0.000000    -.000702    -.000442    -.000070    -.000039
MAX.    .000006    0.000000    .799552    1.073263    1.078293    1.029241
VARIABLE *****
INPUT    .24420E-03
VARIABLE -.10601E-09
        .76298E-02

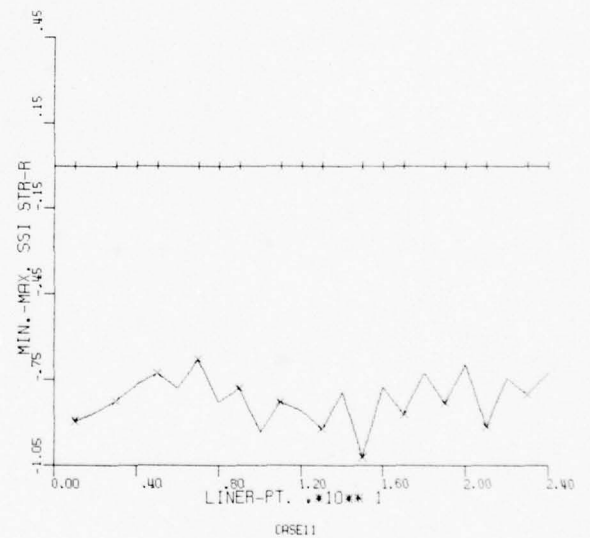
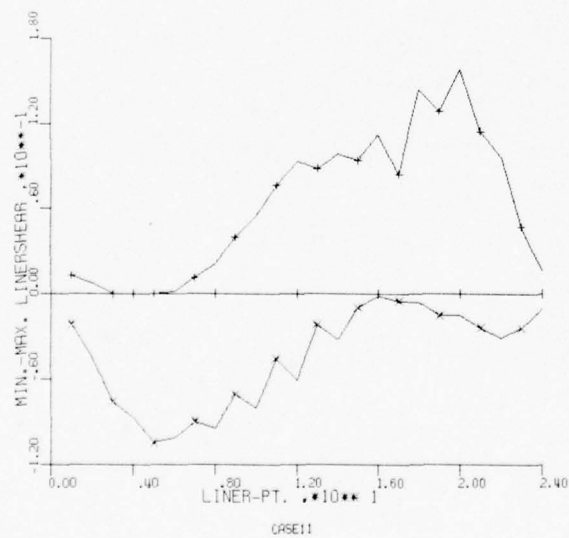
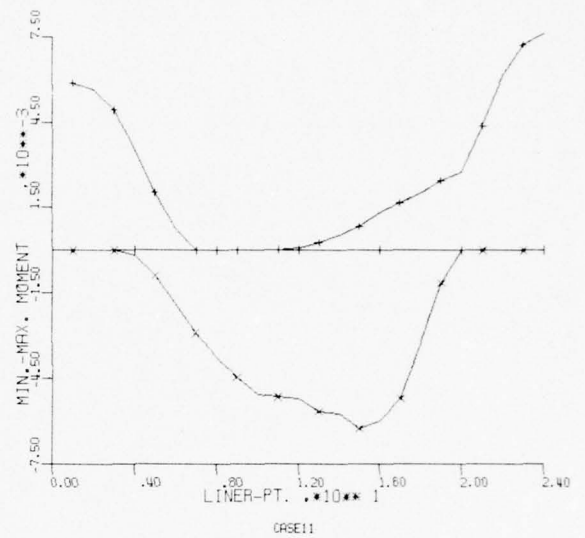
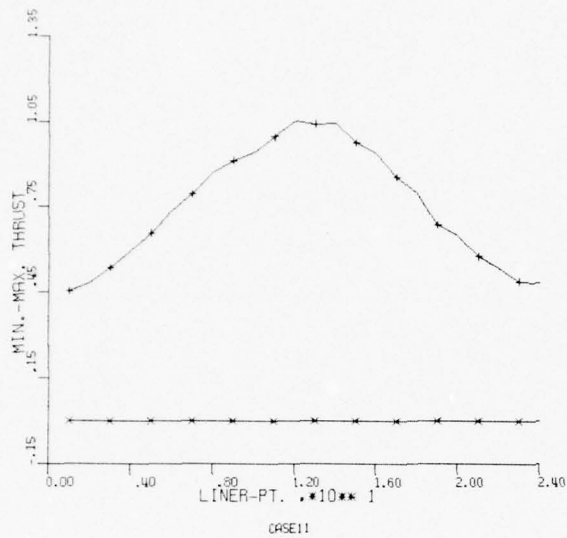
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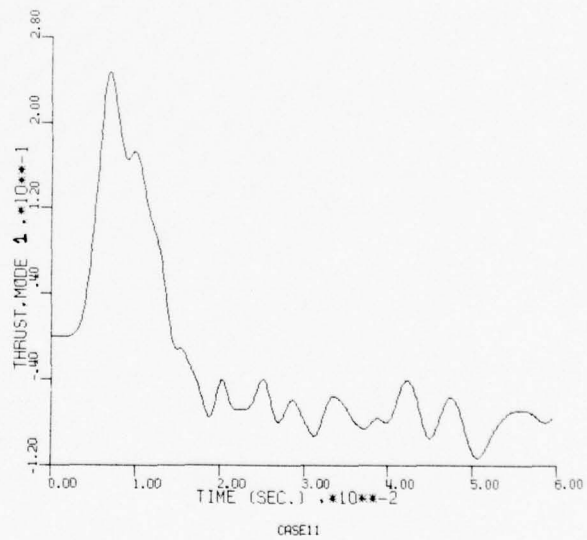
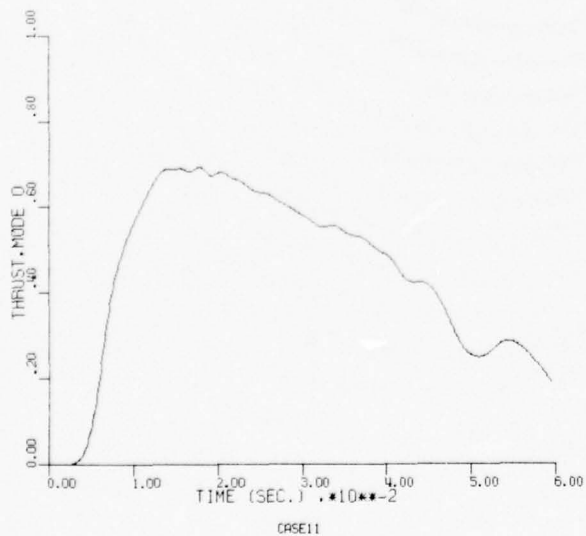
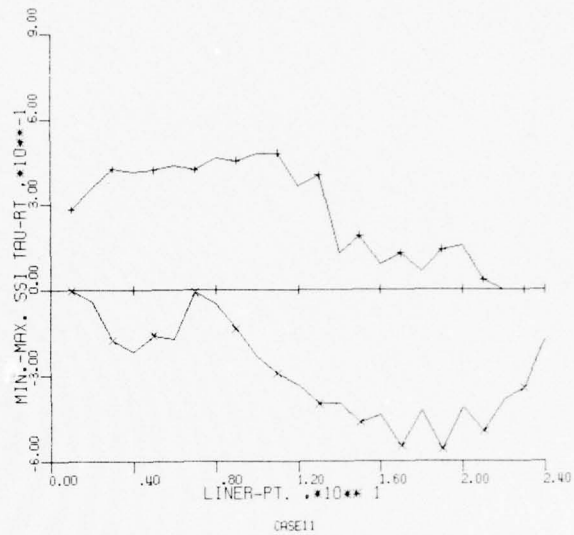
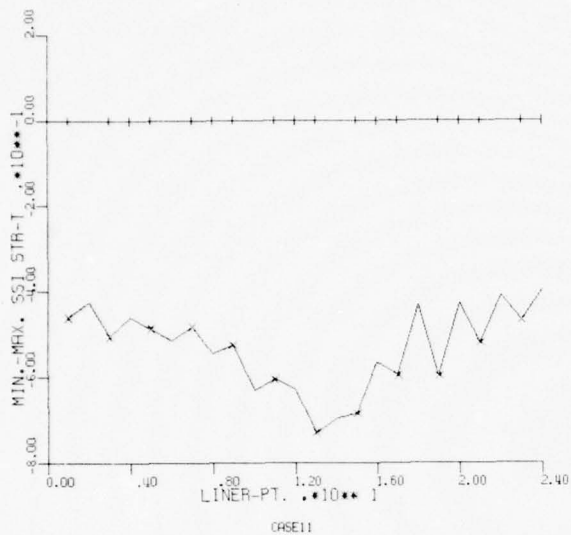
INVERT SSI STR-R

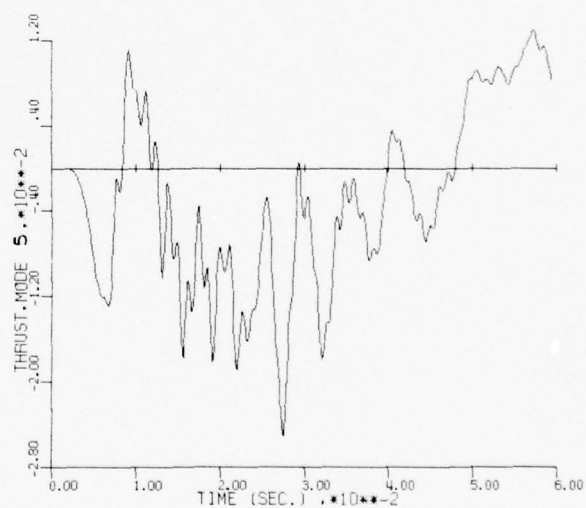
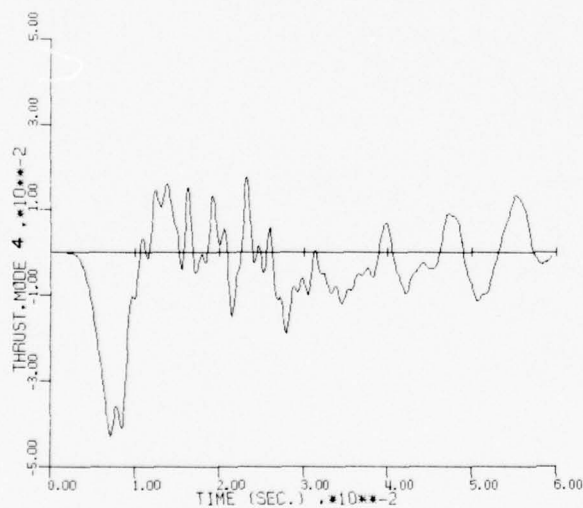
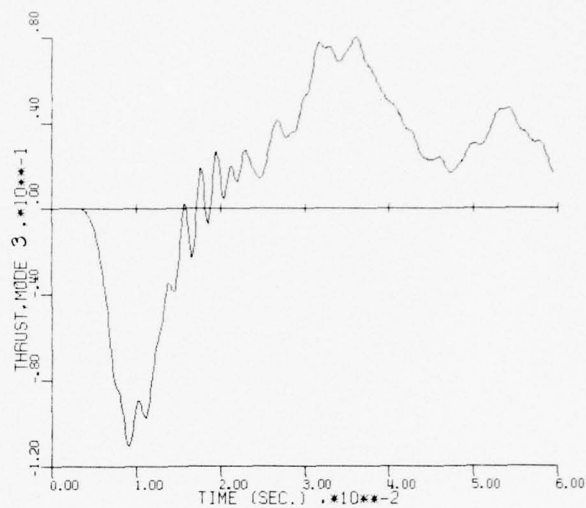
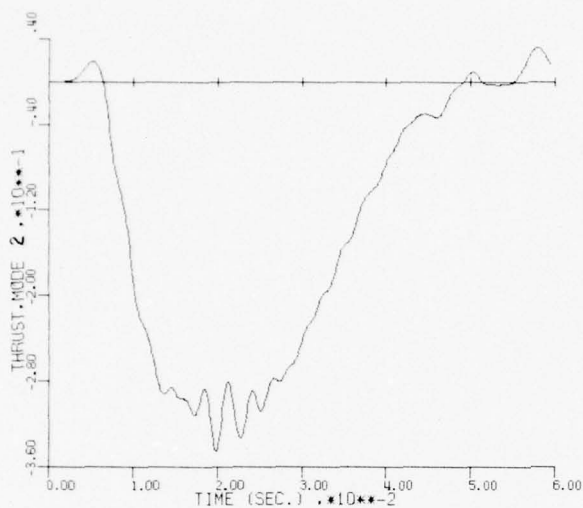
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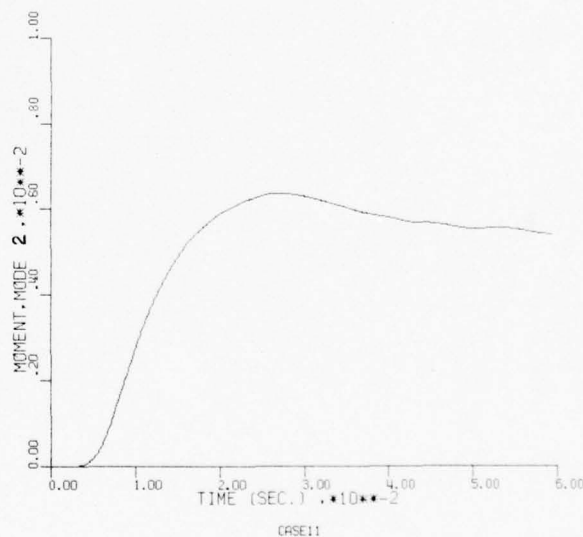
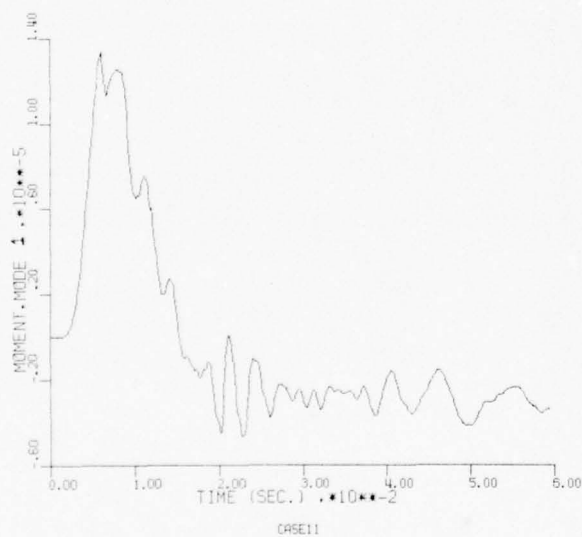
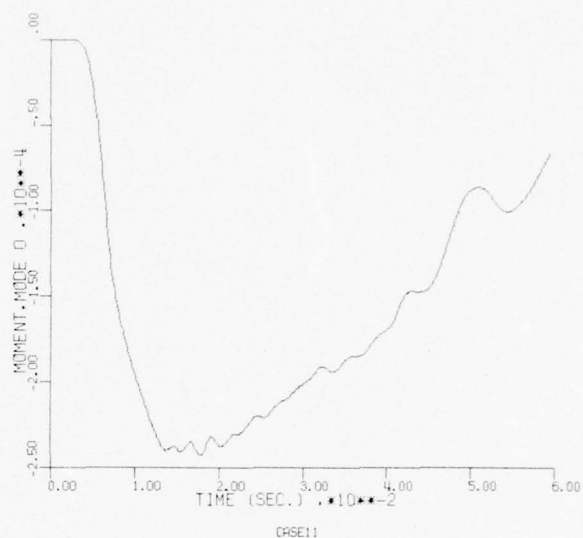
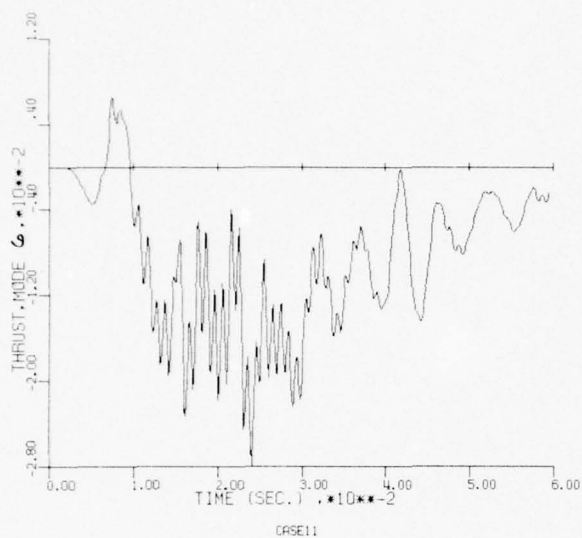
*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .017870    .002043    .003255    .006624    .007415    .006105
MIN.    .956474    1.076764    .971086    1.118124    1.111055    1.070237
MAX.    0.000000    .121976    0.000000    0.000000    .008997    .003764
VARIABLE *****
INPUT    .22184E-01
VARIABLE -.72779E+00
        0.

```

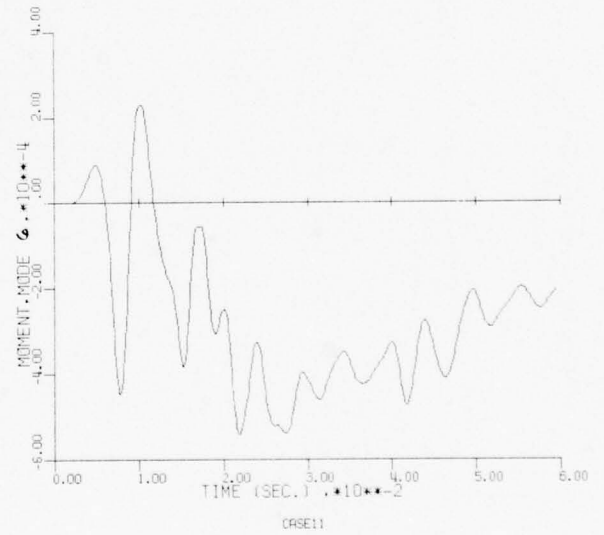
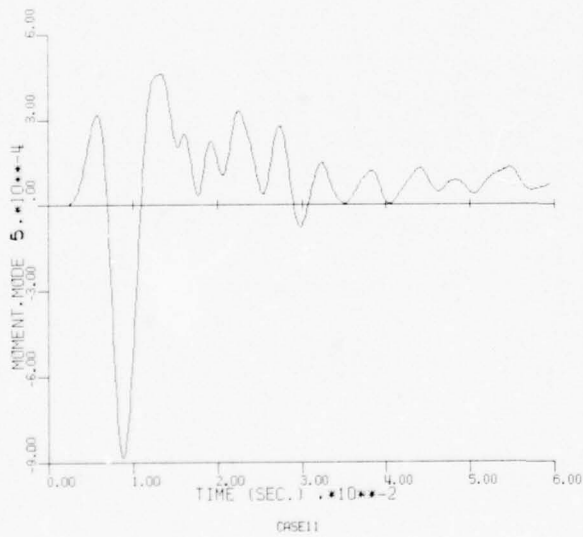
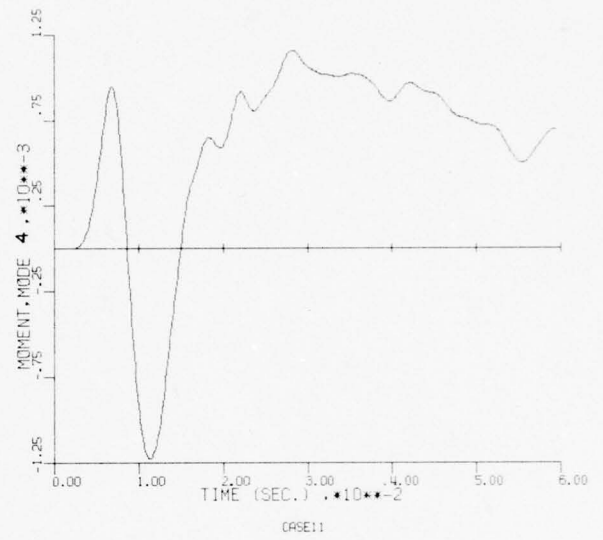
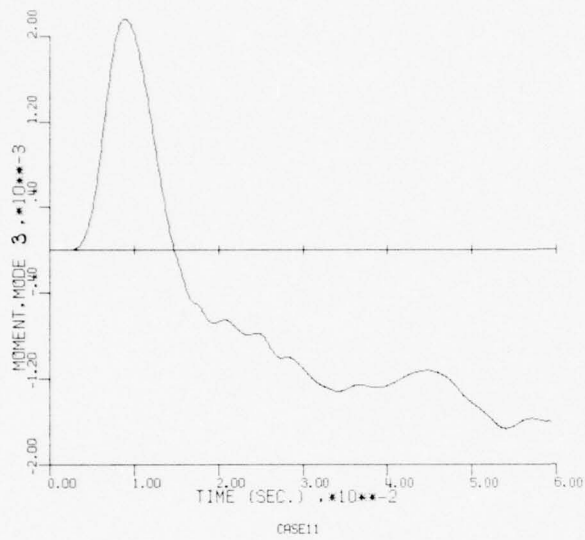


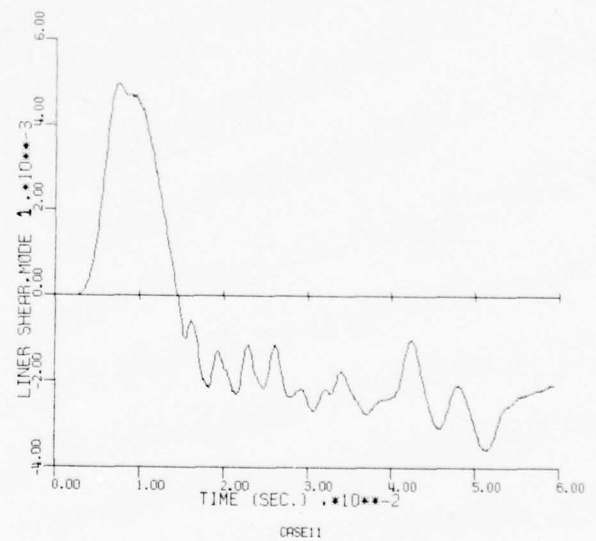
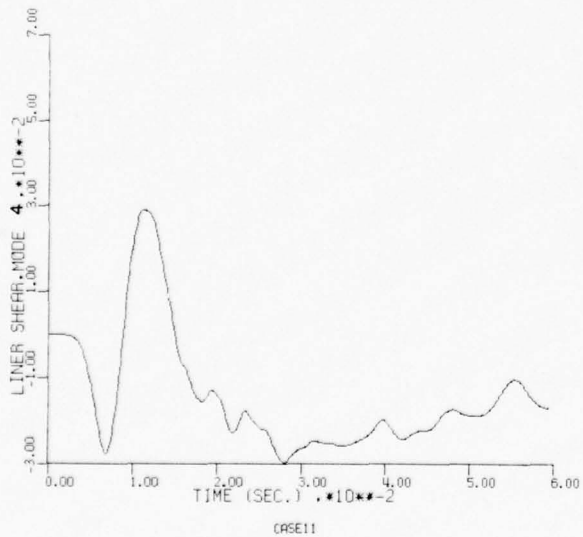
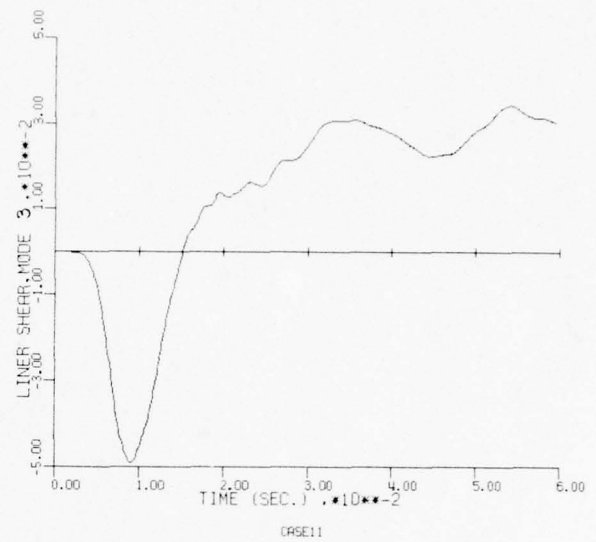
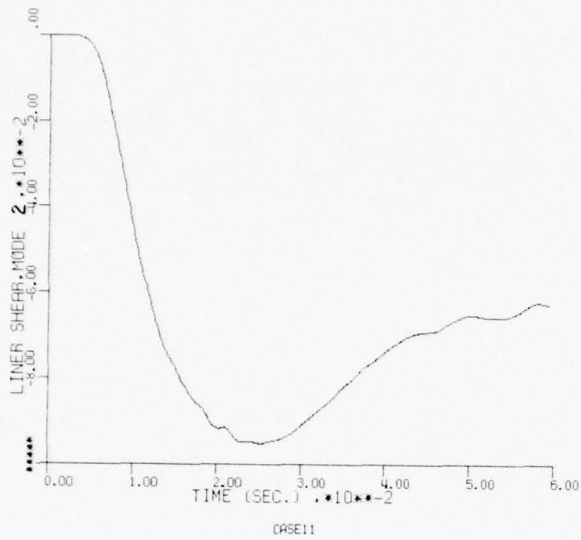


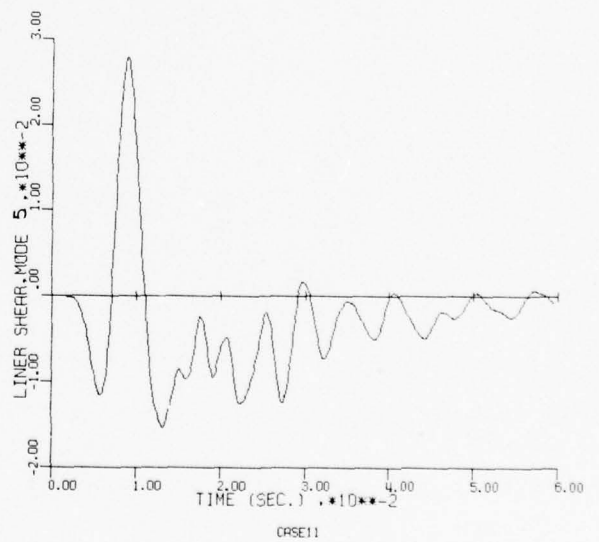
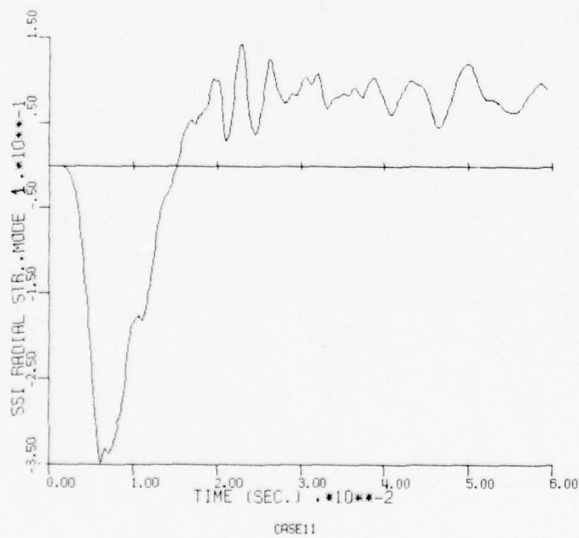
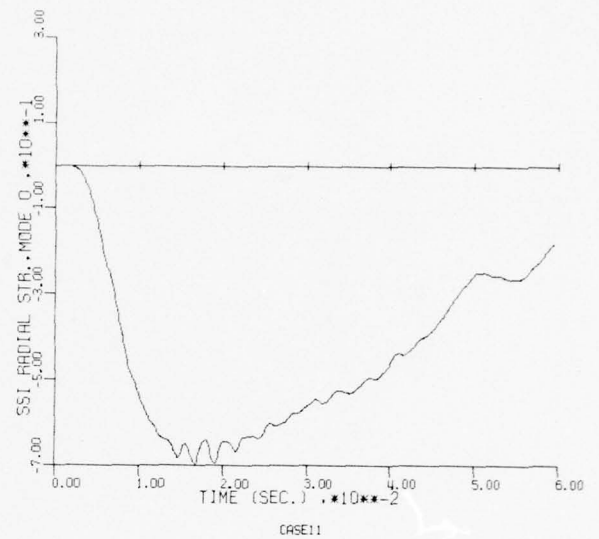
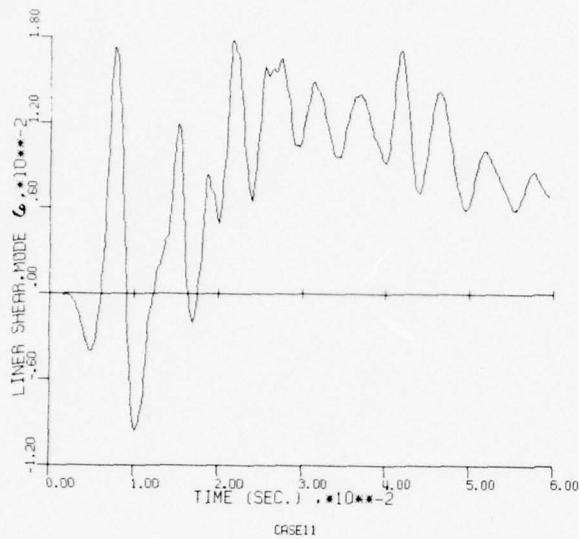


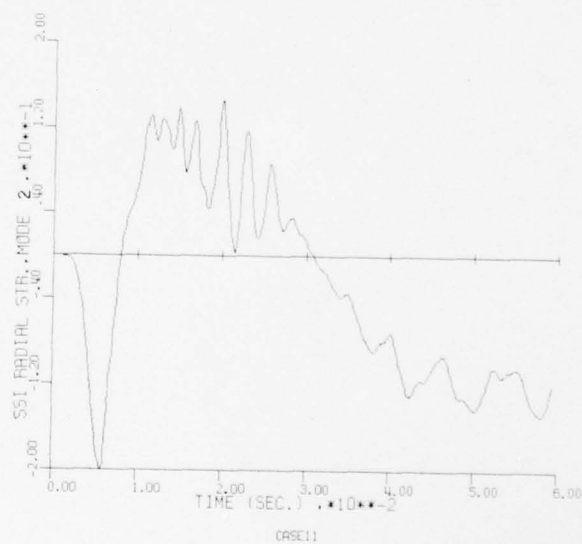
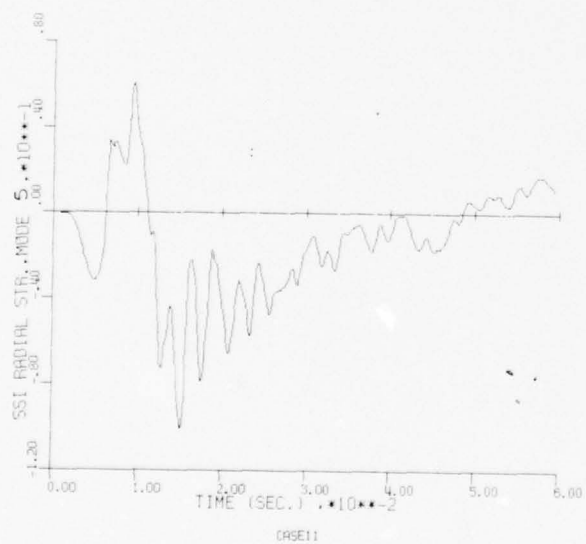
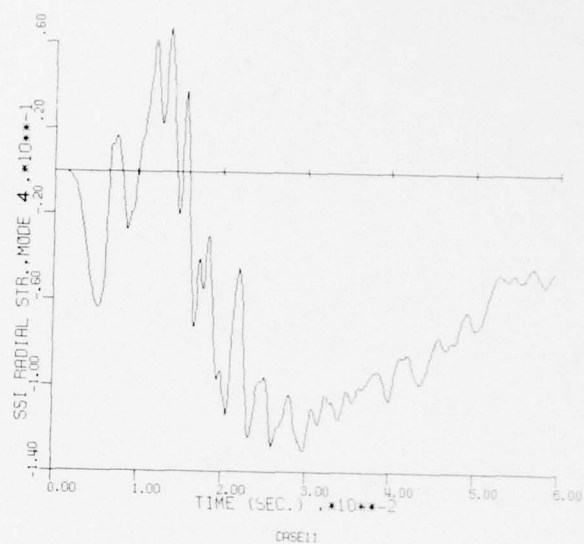
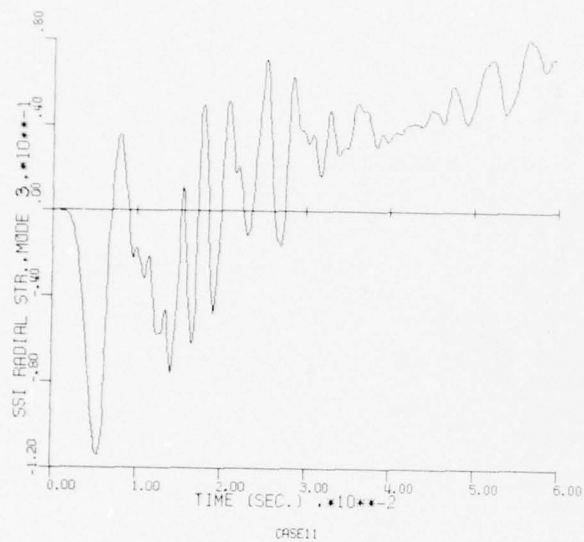


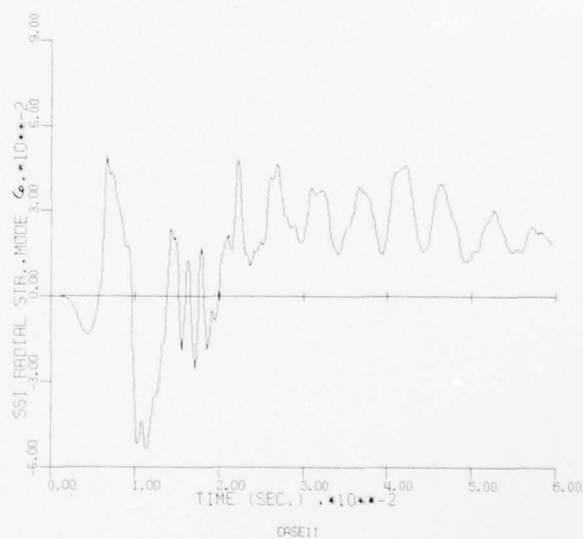
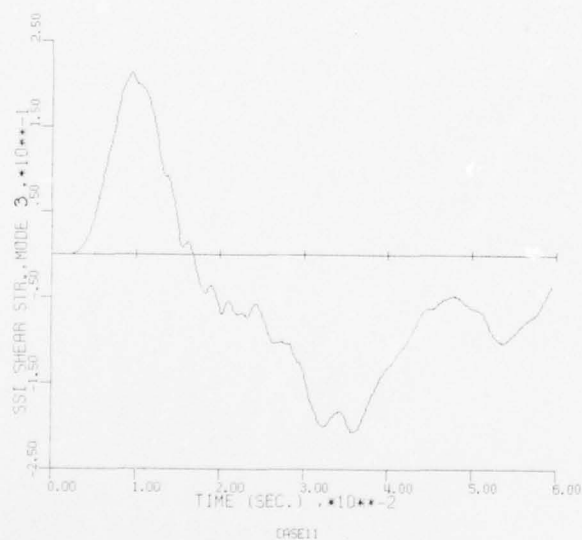
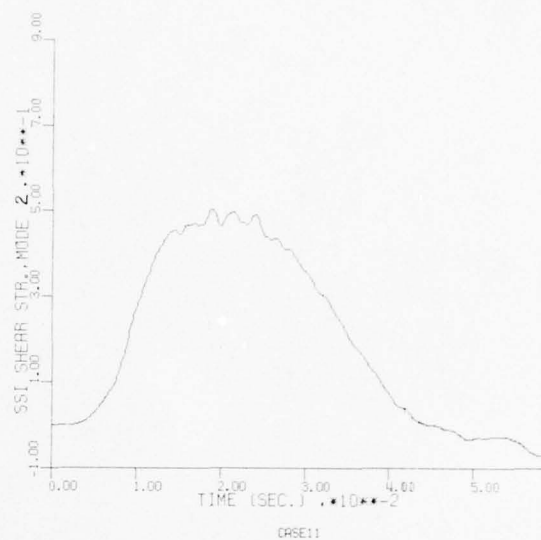
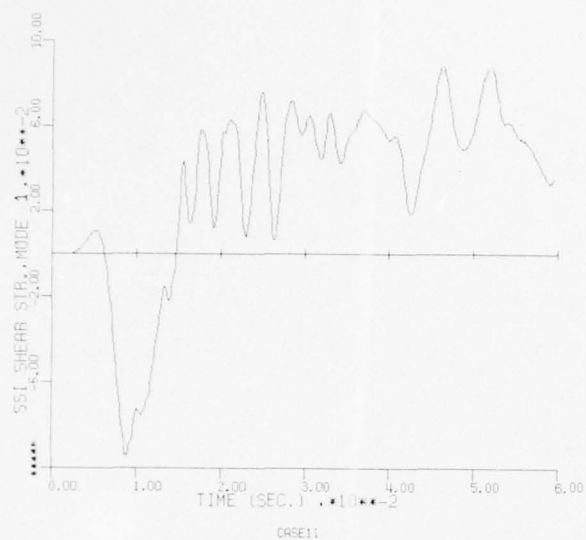




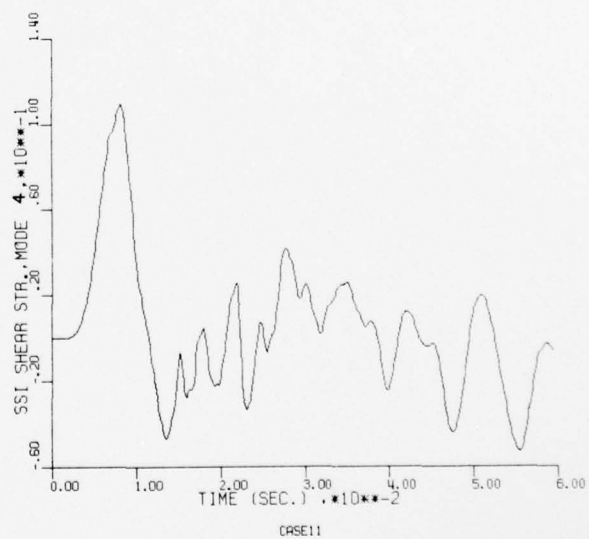
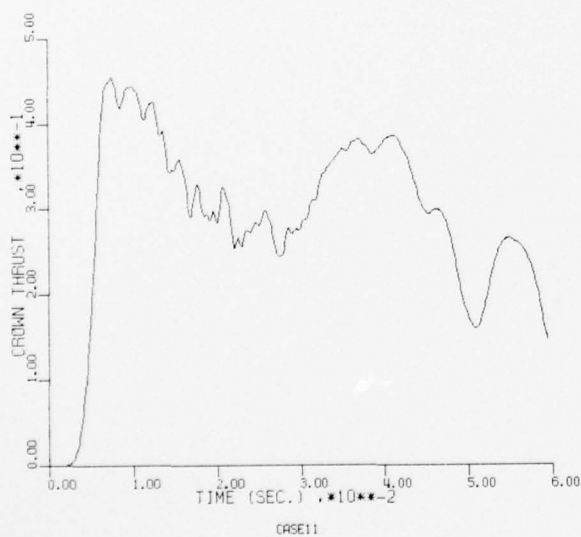
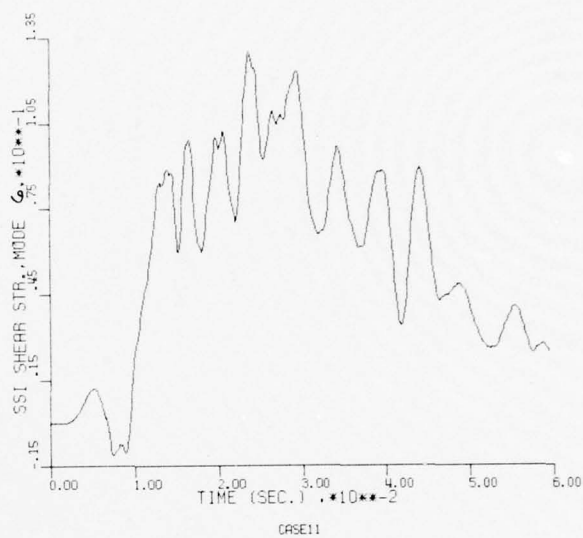
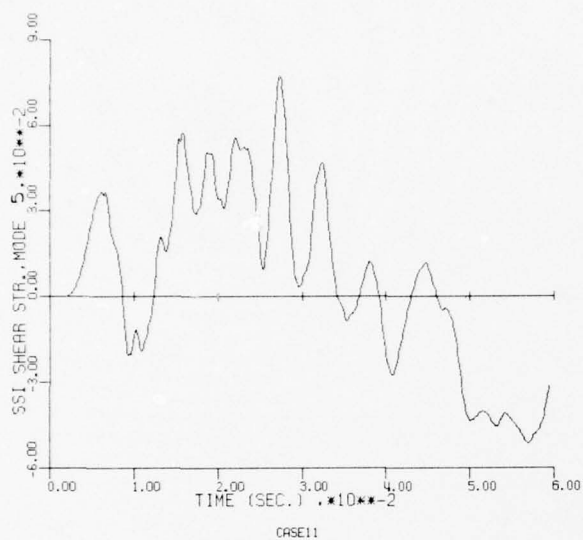


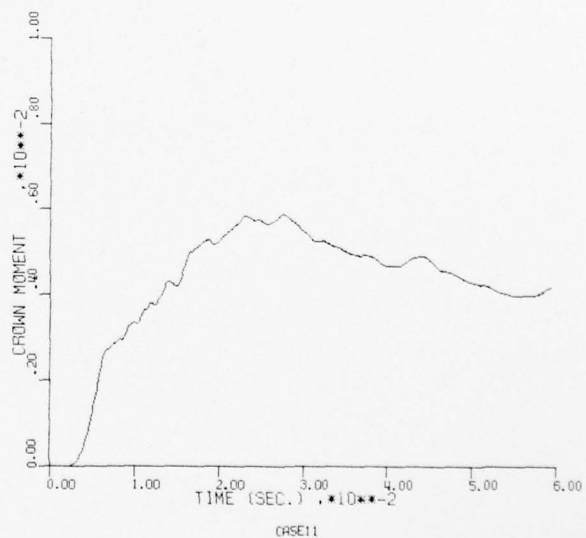
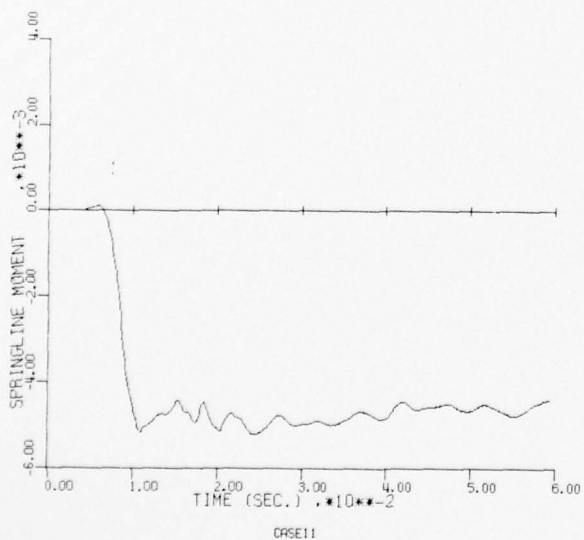
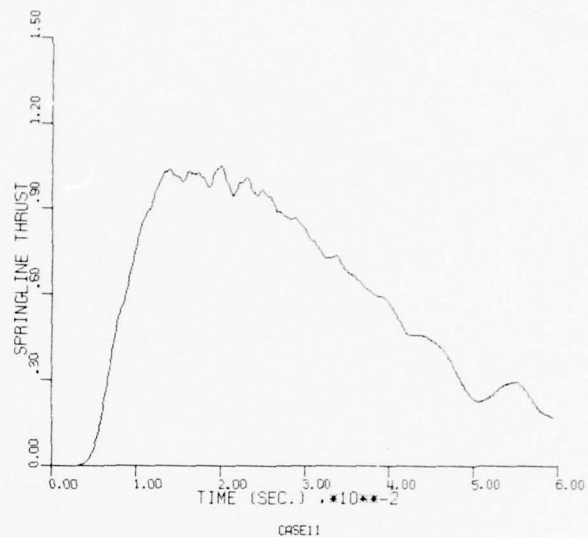
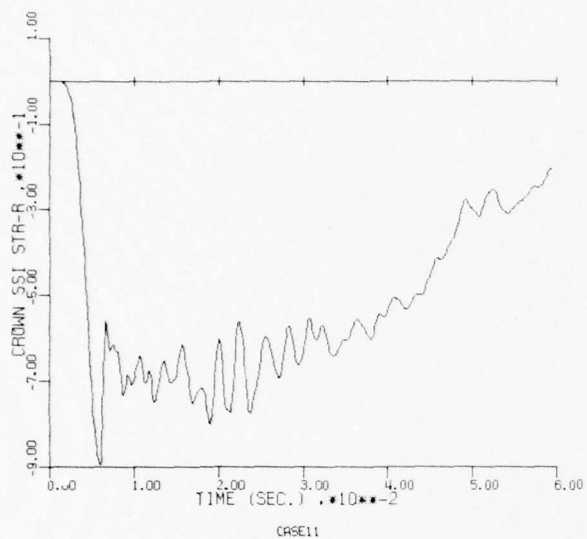


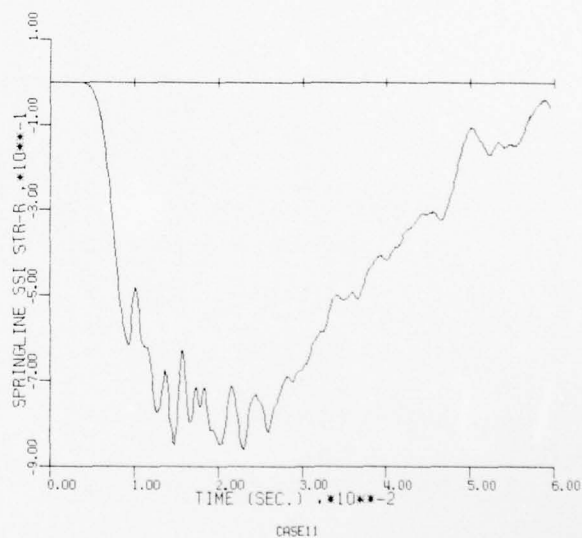
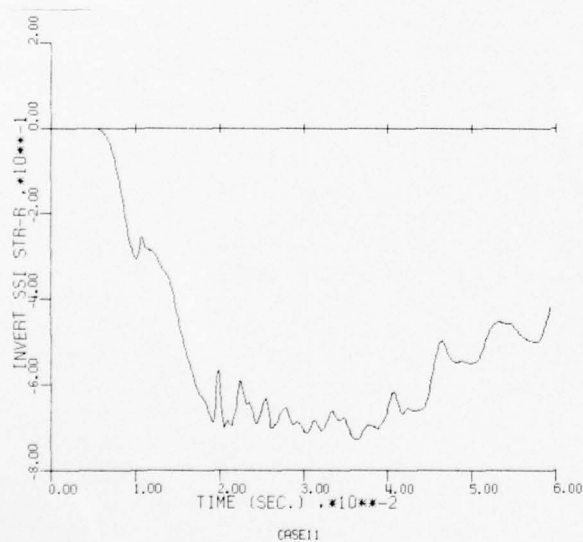
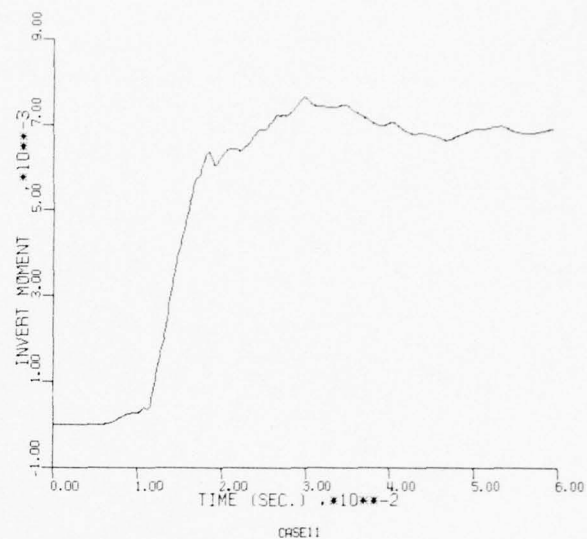
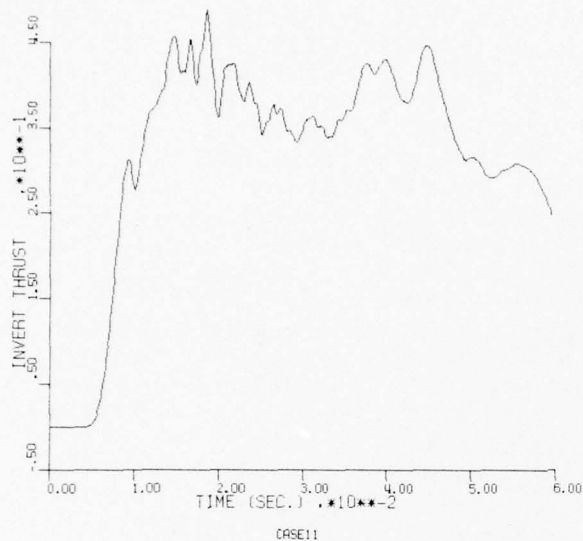












CASE12

MIN.VALUES

THIS PAGE IS BEST QUALITY PRACTICABLE  
FROM COPY FURNISHED TO DDC

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.022885	-1.134459	-.721836	-.003588
	2	0.000000	0.000000	-.027794	-1.162923	-.752609	-.106714
	3	0.000000	-.0000017	-.083822	-1.034702	-.661977	-.196965
	4	0.000000	-.0003698	-.084773	-.830853	-.621948	-.250746
	5	0.000000	-.0012526	-.091198	-.731274	-.589130	-.088097
	6	0.000000	-.0020080	-.105128	-.775208	-.689985	-.142263
	7	0.000000	-.0029268	-.079966	-.757742	-.709887	-.038656
	8	0.000000	-.0034374	-.094161	-.804621	-.905578	-.077279
	9	0.000000	-.0038656	-.047154	-.849339	-.757379	-.122900
	10	0.000000	-.0038208	-.087125	-.976485	-1.019917	-.247444
	11	0.000000	-.0040601	-.052833	-.916513	-1.034091	-.297481
SPR	12	0.000000	-.0036827	-.050337	-.793720	-1.128414	-.315971
	13	0.000000	-.0036878	-.033507	-1.159535	-1.207011	-.452393
	14	0.000000	-.0035117	-.045533	-.860035	-.809563	-.375962
	15	-.000000	-.0038235	-.028291	-.950107	-.934916	-.532303
	16	-.000000	-.0033718	-.033603	-.692418	-.639709	-.412167
	17	-.000000	-.0036461	-.044842	-1.016971	-.796857	-.647726
	18	-.000000	-.0025718	-.041368	-.690442	-.432383	-.393474
	19	-.000000	-.0015420	-.050011	-1.051628	-.661814	-.623144
	20	0.000000	-.0001415	-.033324	-.686248	-.382442	-.373858
	21	-.000000	-.0001207	-.045274	-.918719	-.681460	-.599367
	22	-.000000	-.0002787	-.038083	-.770459	-.504980	-.432042
	23	-.000000	-.0000000	-.031834	-.887452	-.684628	-.429409
INV	24	-.000000	-.0002091	-.021938	-.659954	-.539621	-.213492

MAX.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.402446	.0037051	.013392	0.000000	0.000000	.271955
	2	.388911	.0037430	.029608	0.000000	0.000000	.462255
	3	.468744	.0034842	0.000000	0.000000	0.000000	.464483
	4	.549494	.0024774	0.000000	0.000000	0.000000	.393185
	5	.610725	.0012025	.000103	0.000000	0.000000	.399905
	6	.686582	.0003839	.012179	0.000000	0.000000	.412744
	7	.736284	.0000000	.041347	0.000000	0.000000	.427918
	8	.792345	.0000000	.057310	0.000000	0.000000	.493038
	9	.839234	.0000001	.086028	0.000000	0.000000	.406588
	10	.885213	.0000027	.103689	0.000000	0.000000	.343653
	11	.907030	.0002186	.106444	0.000000	0.000000	.453419
SPR	12	.930722	.0006252	.123730	0.000000	0.000000	.380446
	13	.927585	.0009583	.098779	0.000000	0.000000	.487662
	14	.987917	.0013559	.136732	0.000000	0.000000	.153461
	15	.929315	.0015153	.084997	0.000000	0.000000	.261687
	16	.944920	.0017309	.119930	0.000000	0.000000	.069902
	17	.830119	.0016632	.073379	0.000000	0.000000	.108179
	18	.807090	.0017834	.125491	0.000000	0.000000	.072599
	19	.657821	.0021390	.071394	0.000000	0.000000	.168642
	20	.638429	.0023145	.149866	0.000000	0.000000	.167303
	21	.529023	.0028313	.080278	0.000000	0.000000	.144576
	22	.546535	.0041831	.077202	0.000000	0.000000	.114891
	23	.496007	.0044791	.030001	0.000000	0.000000	.000000
INV	24	.493953	.0043159	.022558	0.000000	0.000000	.013456

MIN-MAX MODAL AMPLITUDES -- CASE 12

LINER THRUST PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.11792E+00	-.31088E+00	-.13295E+00	-.55450E-01	-.37839E-01
MAX	.67102E+00	.25292E+00	.40682E-01	.80545E-01	.36627E-01	.23329E-01
						MODE 6
						-.36292E-01
						.17264E-01
LINER MOMENT PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.23398E-03	-.41738E-05	0.	-.90276E-03	-.85876E-03	-.91115E-03
MAX	.45031E-07	.16092E-04	.39041E-02	.14904E-02	.10337E-02	.56981E-03
						MODE 6
						-.73277E-03
						.58585E-03
LINER SHEAR PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.38730E-02	-.64660E-01	-.38219E-01	-.30814E-01	-.22040E-01
MAX	0.	.40816E-02	0.	.21973E-01	.23982E-01	.30264E-01
						MODE 6
						-.27054E-01
						.28270E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.66715E+00	-.37273E+00	-.28554E+00	-.20204E+00	-.16701E+00	-.14873E+00
MAX	0.	.15114E+00	.17051E+00	.11018E+00	.90011E-01	.10361E+00
						MODE 6
						-.14478E+00
						.96542E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.45266E-01	-.62113E-01	-.21749E+00	-.70159E-01	-.53202E-01
MAX	0.	.11436E+00	.16769E+00	.20433E+00	.11261E+00	.13025E+00
						MODE 6
						-.32801E-01
						.12480E+00



	***** MODAL HISTORY/INPUT *****										***** MODES *****										***** INPUT VARIABLE *****																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
	MODE 0		MODES 0-1		MODES 0-2		MODES 0-3		MODES 0-4		MODES 0-5		MODES 0-6		MODES 0-7		MODES 0-8		MODES 0-9		MODES 0-10		MODES 0-11		MODES 0-12		MODES 0-13		MODES 0-14		MODES 0-15		MODES 0-16		MODES 0-17		MODES 0-18		MODES 0-19		MODES 0-20		MODES 0-21		MODES 0-22		MODES 0-23		MODES 0-24		MODES 0-25		MODES 0-26		MODES 0-27		MODES 0-28		MODES 0-29		MODES 0-30		MODES 0-31		MODES 0-32		MODES 0-33		MODES 0-34		MODES 0-35		MODES 0-36		MODES 0-37		MODES 0-38		MODES 0-39		MODES 0-40		MODES 0-41		MODES 0-42		MODES 0-43		MODES 0-44		MODES 0-45		MODES 0-46		MODES 0-47		MODES 0-48		MODES 0-49		MODES 0-50		MODES 0-51		MODES 0-52		MODES 0-53		MODES 0-54		MODES 0-55		MODES 0-56		MODES 0-57		MODES 0-58		MODES 0-59		MODES 0-60		MODES 0-61		MODES 0-62		MODES 0-63		MODES 0-64		MODES 0-65		MODES 0-66		MODES 0-67		MODES 0-68		MODES 0-69		MODES 0-70		MODES 0-71		MODES 0-72		MODES 0-73		MODES 0-74		MODES 0-75		MODES 0-76		MODES 0-77		MODES 0-78		MODES 0-79		MODES 0-80		MODES 0-81		MODES 0-82		MODES 0-83		MODES 0-84		MODES 0-85		MODES 0-86		MODES 0-87		MODES 0-88		MODES 0-89		MODES 0-90		MODES 0-91		MODES 0-92		MODES 0-93		MODES 0-94		MODES 0-95		MODES 0-96		MODES 0-97		MODES 0-98		MODES 0-99		MODES 0-100		MODES 0-101		MODES 0-102		MODES 0-103		MODES 0-104		MODES 0-105		MODES 0-106		MODES 0-107		MODES 0-108		MODES 0-109		MODES 0-110		MODES 0-111		MODES 0-112		MODES 0-113		MODES 0-114		MODES 0-115		MODES 0-116		MODES 0-117		MODES 0-118		MODES 0-119		MODES 0-120		MODES 0-121		MODES 0-122		MODES 0-123		MODES 0-124		MODES 0-125		MODES 0-126		MODES 0-127		MODES 0-128		MODES 0-129		MODES 0-130		MODES 0-131		MODES 0-132		MODES 0-133		MODES 0-134		MODES 0-135		MODES 0-136		MODES 0-137		MODES 0-138		MODES 0-139		MODES 0-140		MODES 0-141		MODES 0-142		MODES 0-143		MODES 0-144		MODES 0-145		MODES 0-146		MODES 0-147		MODES 0-148		MODES 0-149		MODES 0-150		MODES 0-151		MODES 0-152		MODES 0-153		MODES 0-154		MODES 0-155		MODES 0-156		MODES 0-157		MODES 0-158		MODES 0-159		MODES 0-160		MODES 0-161		MODES 0-162		MODES 0-163		MODES 0-164		MODES 0-165		MODES 0-166		MODES 0-167		MODES 0-168		MODES 0-169		MODES 0-170		MODES 0-171		MODES 0-172		MODES 0-173		MODES 0-174		MODES 0-175		MODES 0-176		MODES 0-177		MODES 0-178		MODES 0-179		MODES 0-180		MODES 0-181		MODES 0-182		MODES 0-183		MODES 0-184		MODES 0-185		MODES 0-186		MODES 0-187		MODES 0-188		MODES 0-189		MODES 0-190		MODES 0-191		MODES 0-192		MODES 0-193		MODES 0-194		MODES 0-195		MODES 0-196		MODES 0-197		MODES 0-198		MODES 0-199		MODES 0-200		MODES 0-201		MODES 0-202		MODES 0-203		MODES 0-204		MODES 0-205		MODES 0-206		MODES 0-207		MODES 0-208		MODES 0-209		MODES 0-210		MODES 0-211		MODES 0-212		MODES 0-213		MODES 0-214		MODES 0-215		MODES 0-216		MODES 0-217		MODES 0-218		MODES 0-219		MODES 0-220		MODES 0-221		MODES 0-222		MODES 0-223		MODES 0-224		MODES 0-225		MODES 0-226		MODES 0-227		MODES 0-228		MODES 0-229		MODES 0-230		MODES 0-231		MODES 0-232		MODES 0-233		MODES 0-234		MODES 0-235		MODES 0-236		MODES 0-237		MODES 0-238		MODES 0-239		MODES 0-240		MODES 0-241		MODES 0-242	

	MODEL	U	MODS 0-1	MODS 0-2	MODS 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.034887		.034922	.007301	.006123		.001677	.001372	.000530	VARIABLE .11085E-03
MIN.	-.000234		-.000236	0.000000	0.000000		0.000000	0.000000	0.000000	0.
MAX.	.000012		.001142	.991570	.874216		1.129330	1.110001	1.037226	.37051E-02

[illegible]

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.001272	.0000978	.000041	.0000201	.000250	.000277	.000350		VARIABLE
MIN.	0.000000	0.000000	.000001	.000003	-	.000017	.000055	-	.22759E-01
MAX.	.720972	.719329	1.025831	1.022179	.994252	.981184	.991528	.991528	0.93072E+00

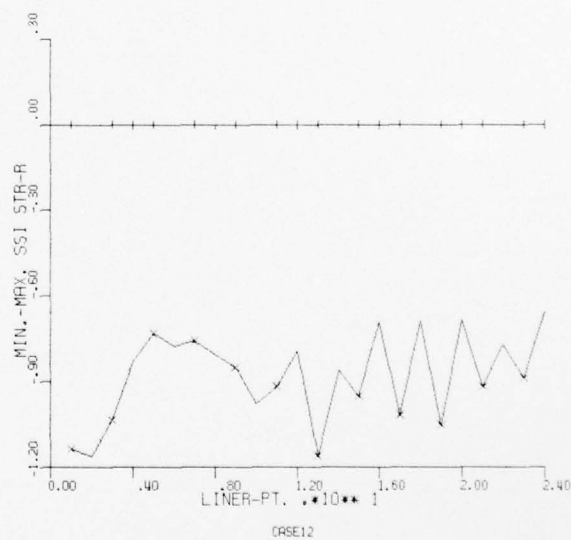
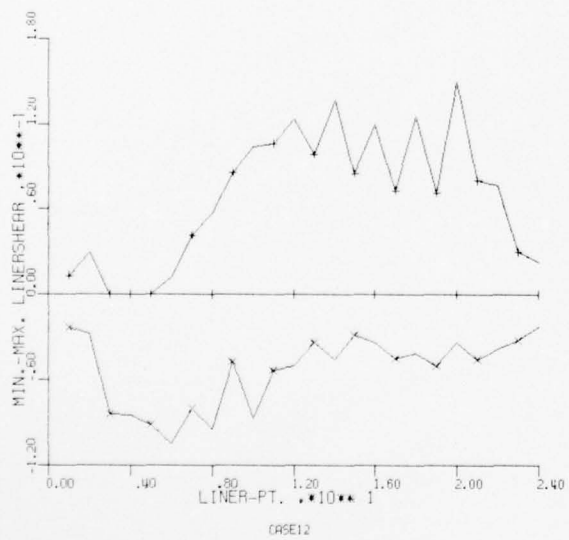
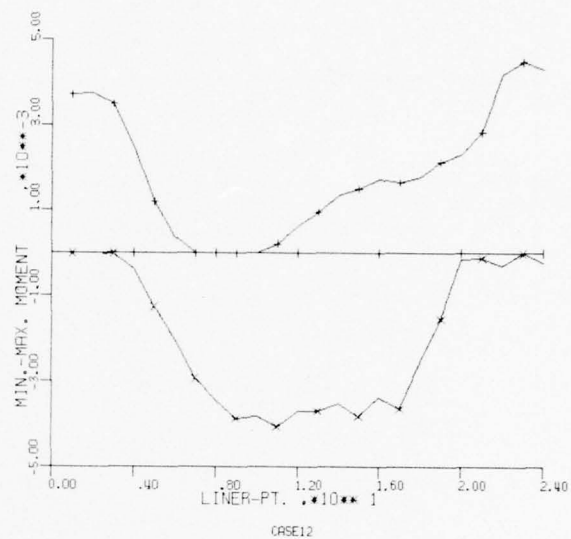
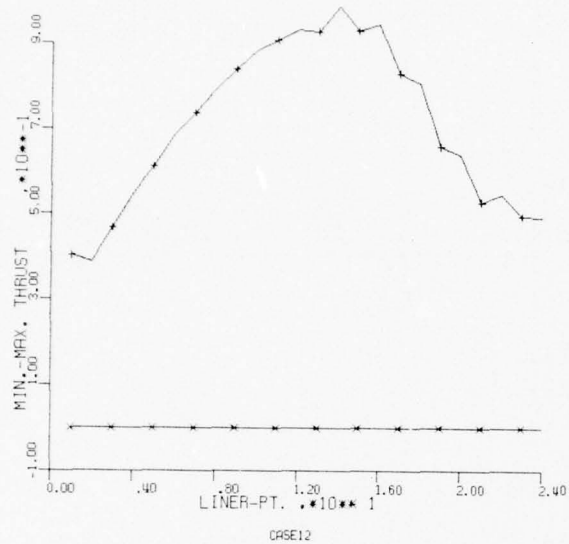
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .033000 .033598 .012652 .009727 .001184 .001297 .000786  
MIN. .063535 .063546 1.104027 1.077955 .971855 .925551 .991798  
MAX. .000072 .000109 0.000000 0.000000 .261712 .483991 .627993  
INPUT  
VARIABLE  
.10120E-03  
-.36827E-02  
.62517E-03

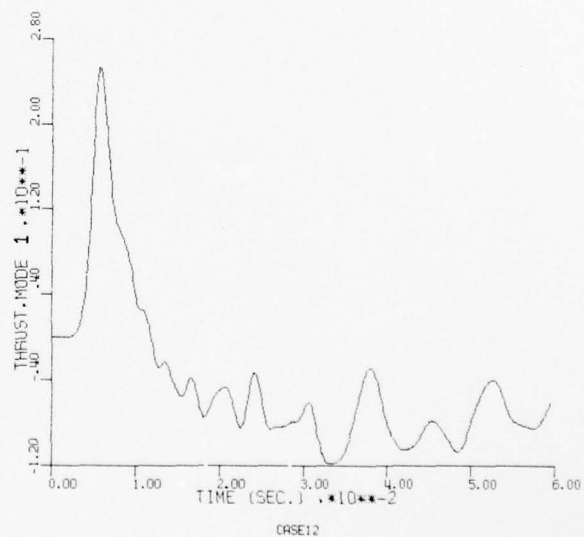
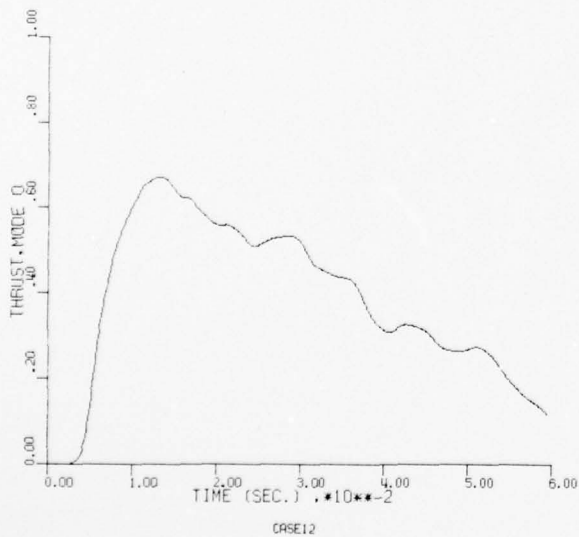
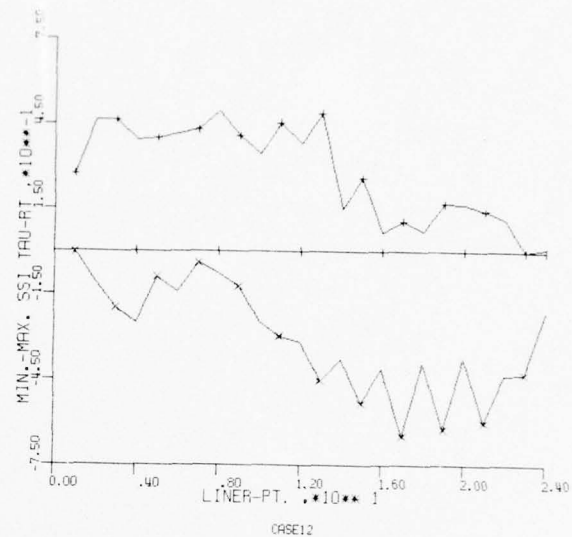
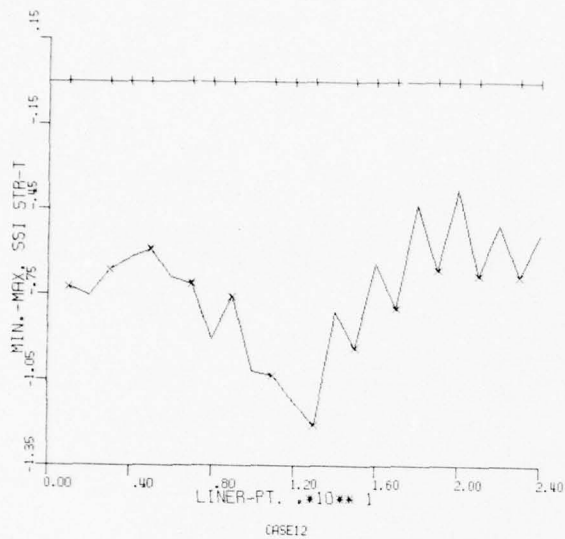
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .005493 .005033 .000142 .000324 .007413 .007091 .007518  
MIN. .840537 .838645 1.050952 1.040224 1.106353 1.124928 1.185144  
MAX. 0.000000 0.000000 .067750 .106155 .009256 .036930 .000860  
INPUT  
VARIABLE  
.15592E-01  
-.79372E+00  
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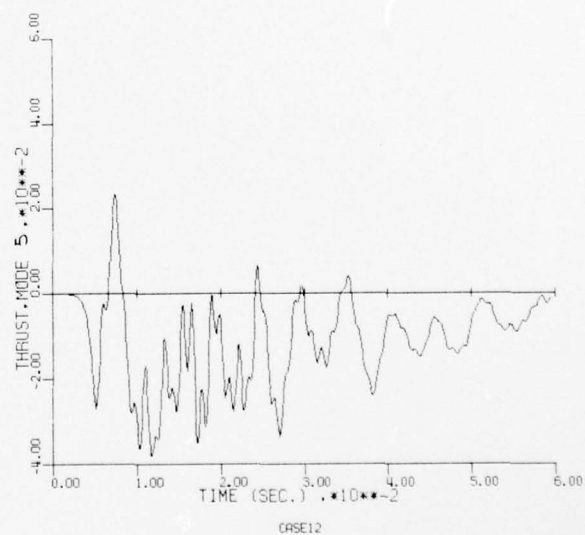
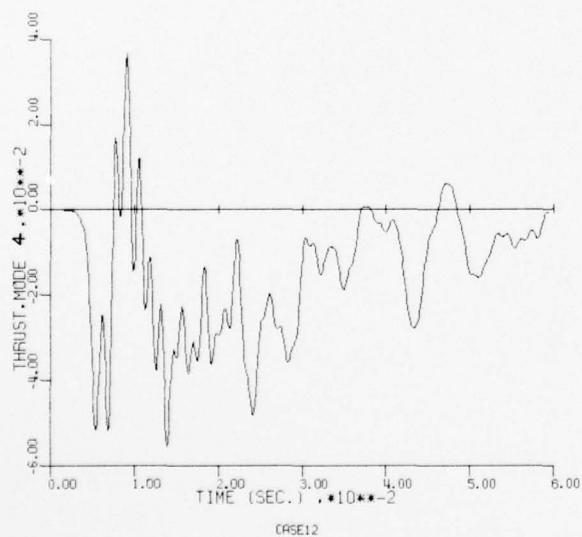
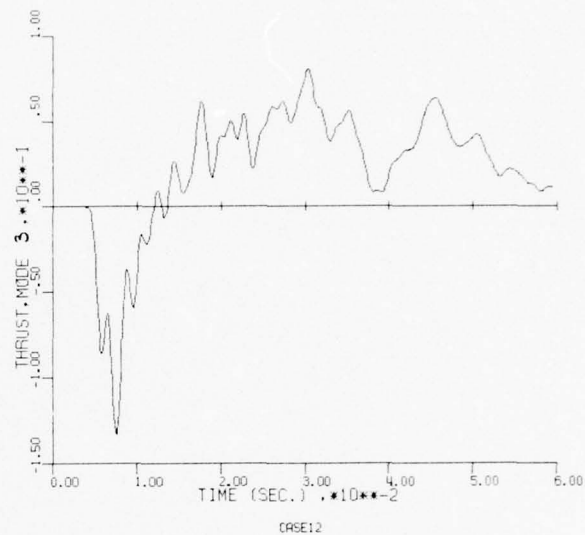
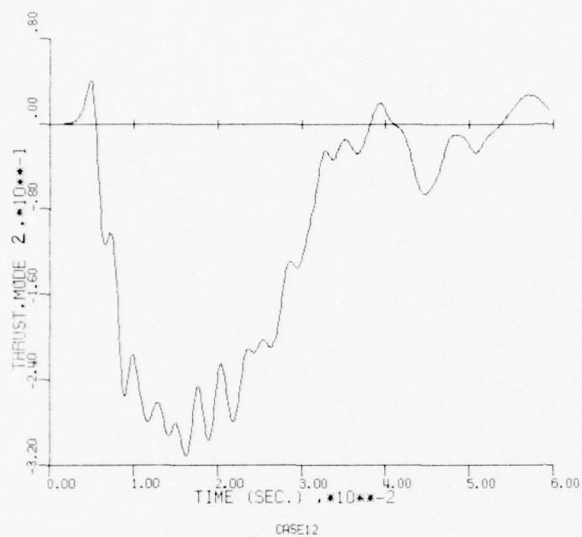
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .008009 .000268 .001495 .000095 .000011 .000150 .000276  
MIN. 0.000000 -.039851 -.027995 -.000002 -.011667 -.000000 -.001713  
MAX. 1.358478 1.414512 1.102432 1.024700 1.004782 1.032161 1.005453  
INPUT  
VARIABLE  
.13153E-01  
-.16918E-47  
.49395E+00

INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .041699 .044671 .010661 .000152 .006434 .006680 .005149  
MIN. 1.118804 1.124288 0.000000 2.909155 2.188159 1.258888 1.458473  
MAX. .000010 0.000000 .852197 .976664 1.186560 1.221016 1.119713  
INPUT  
VARIABLE  
.13762E-03  
-.20914E-03  
.43159E-02

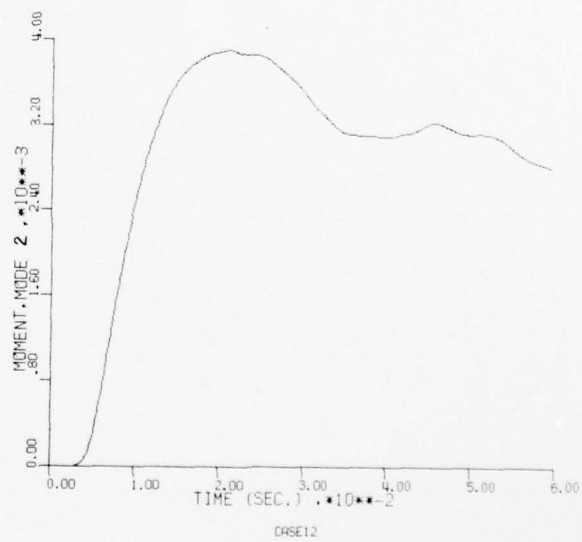
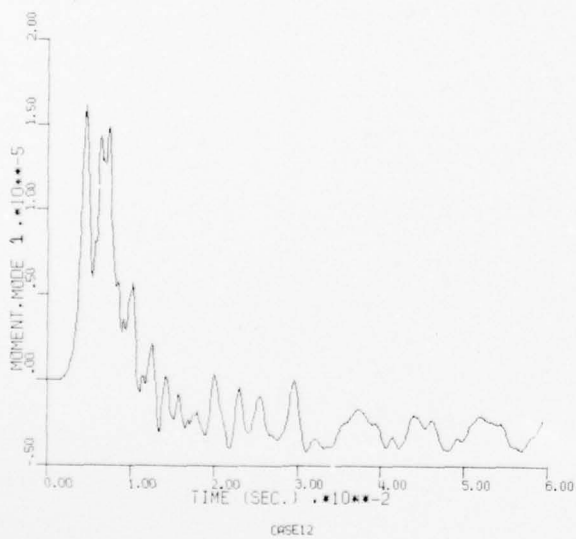
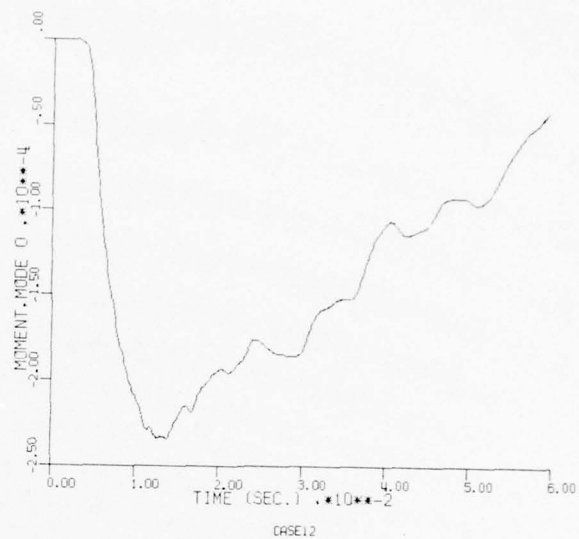
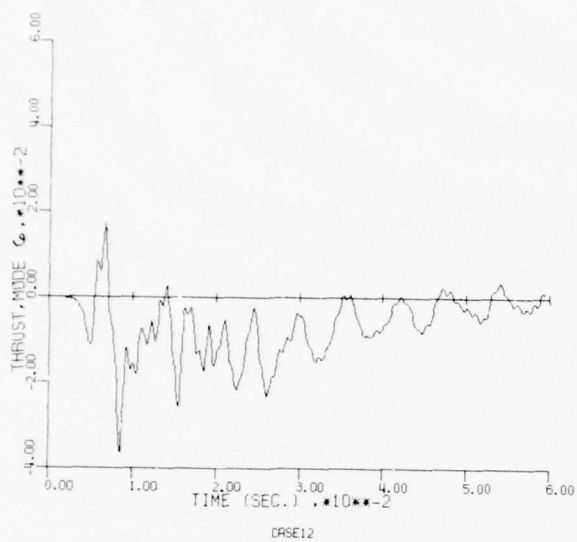
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .009039 .002924 .001587 .003628 .009808 .010636 .010263  
MIN. 1.010905 1.137848 1.067719 1.091571 1.260667 1.272759 1.234954  
MAX. 0.000000 .104388 .038523 .079024 .048976 .023367 .030588  
INPUT  
VARIABLE  
.17885E-01  
-.65995E+00  
0.

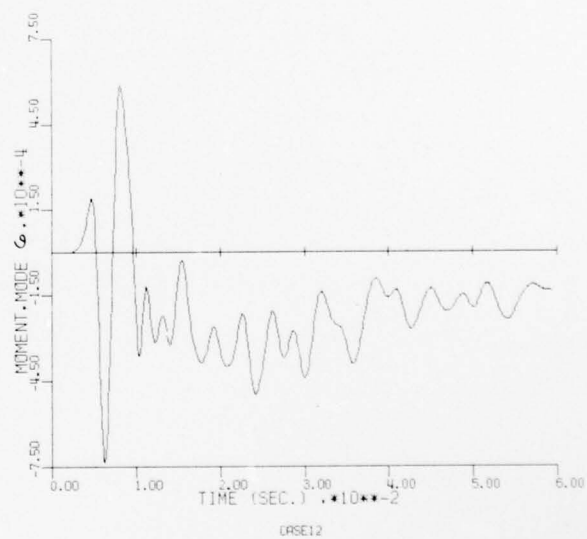
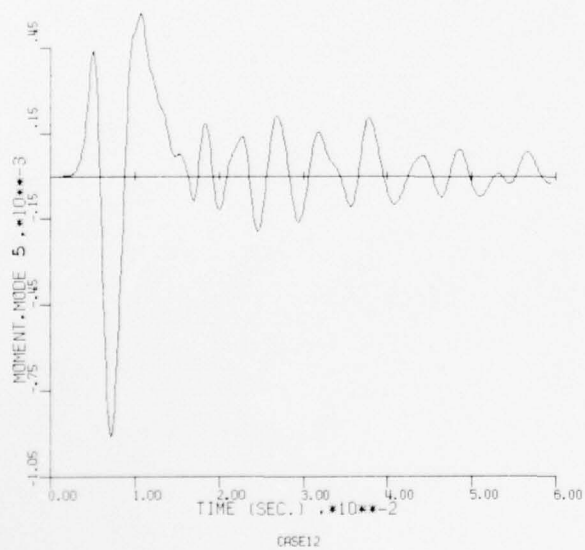
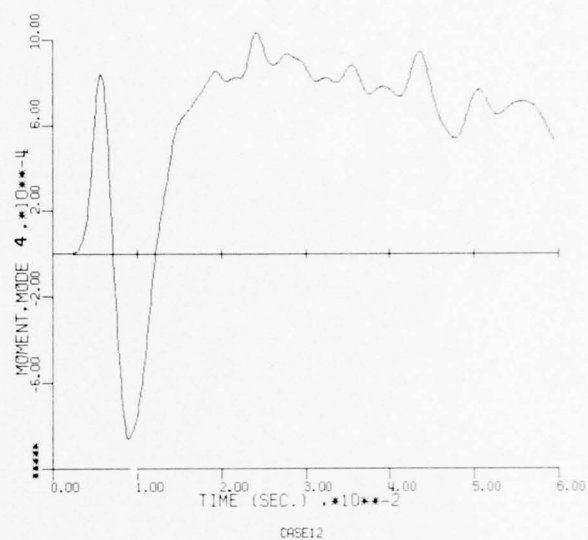
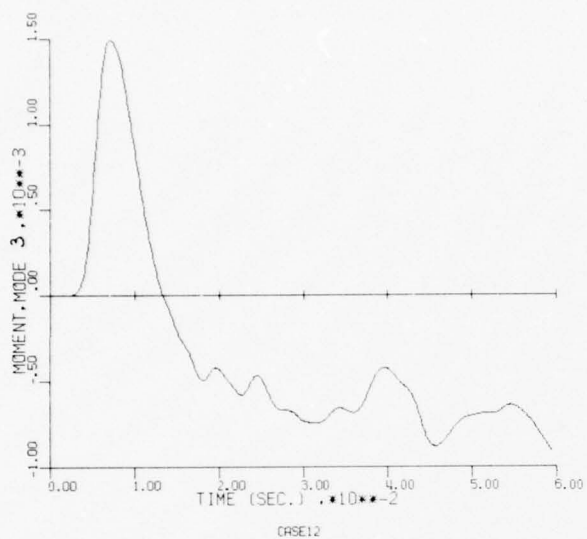


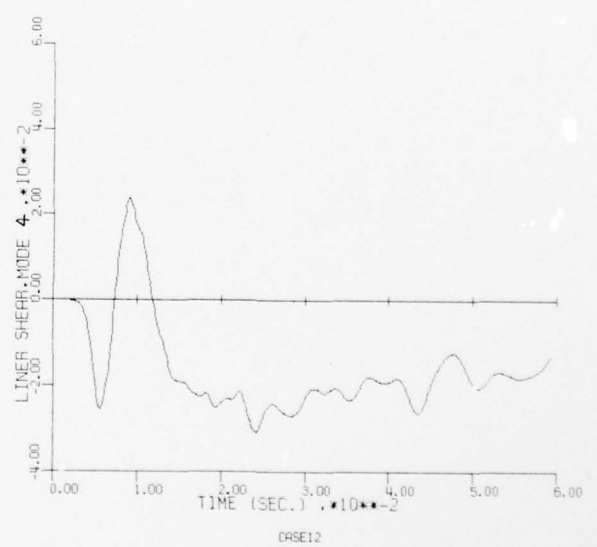
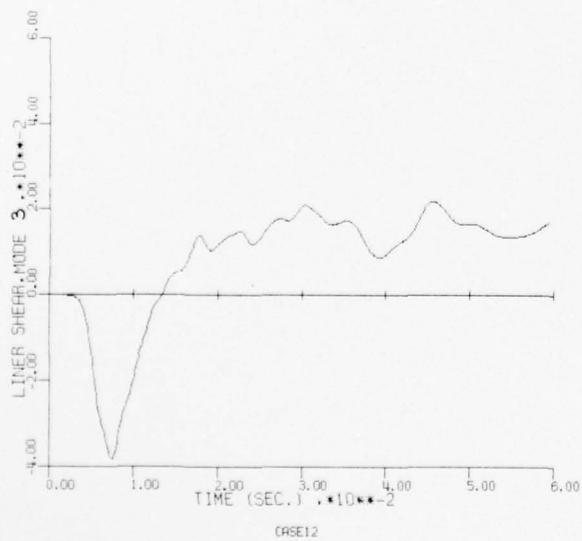
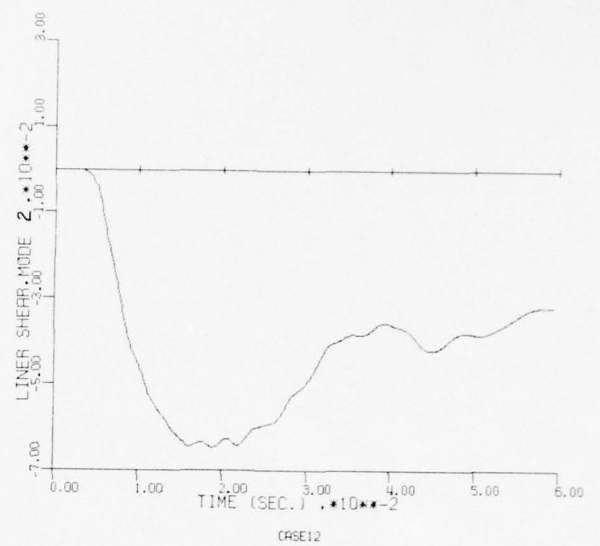
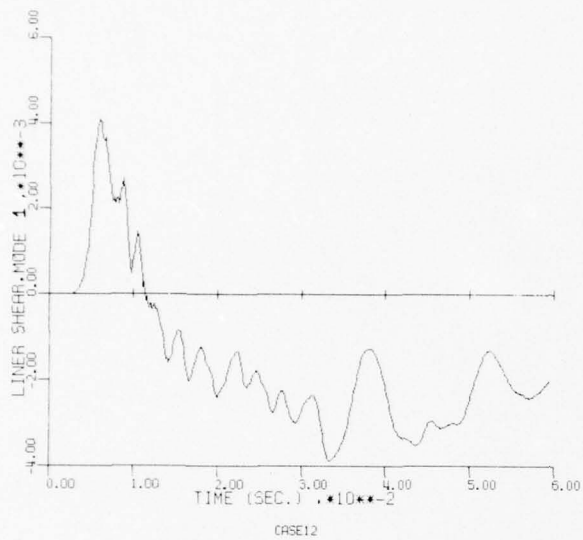












AD-A061 465

IIT RESEARCH INST CHICAGO ILL

F/G 18/3

THEORETICAL INVESTIGATION OF LOADS ON BURIED STRUCTURES. VOLUME--ETC(U)

AUG 78 R R ROBINSON

F29601-76-C-0124

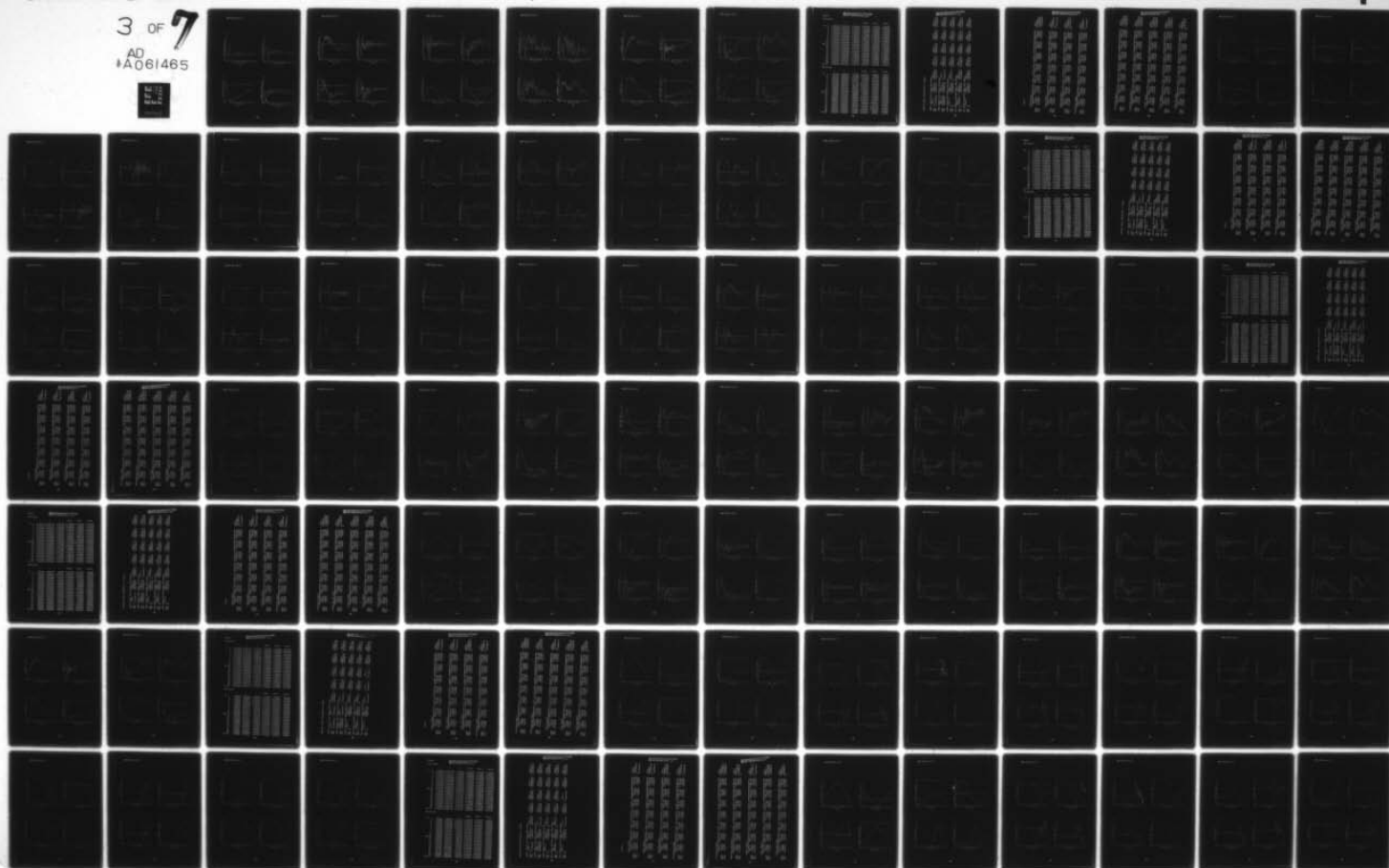
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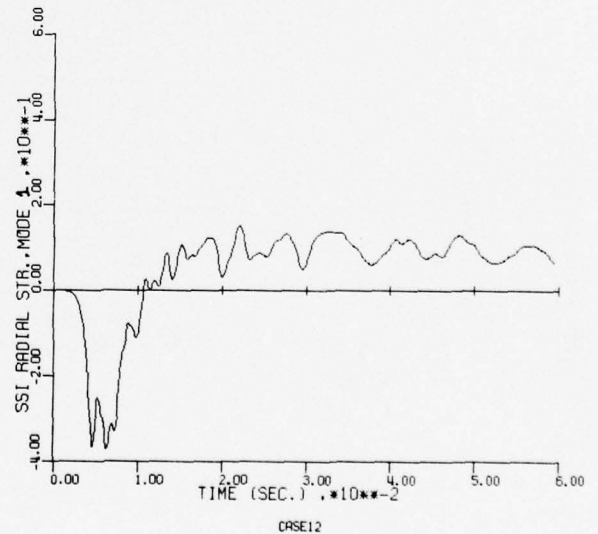
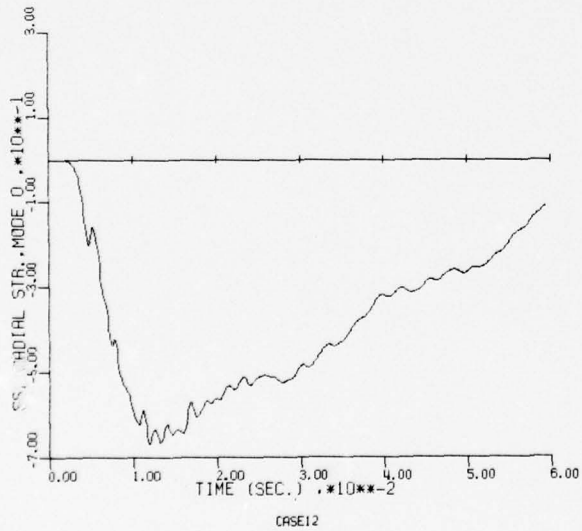
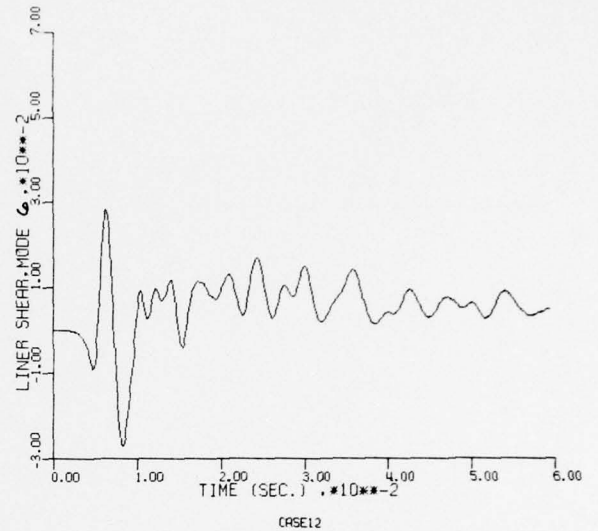
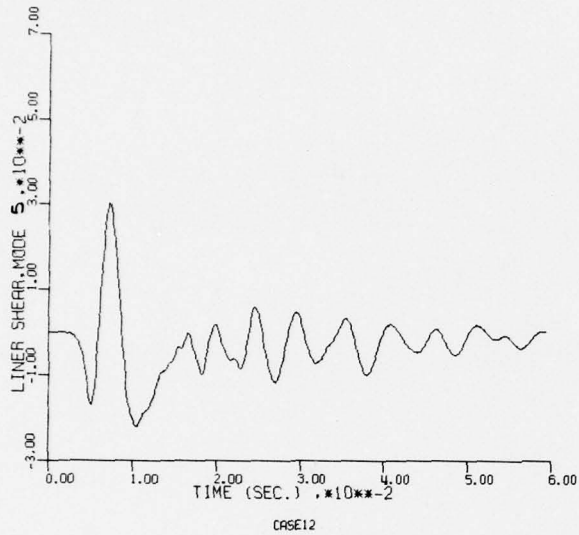
IITRI-J6378-VOL-2

AFWL-TR-78-6-VOL-2

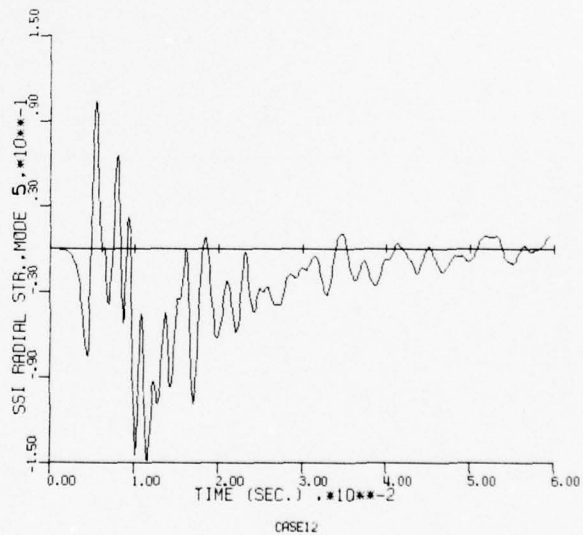
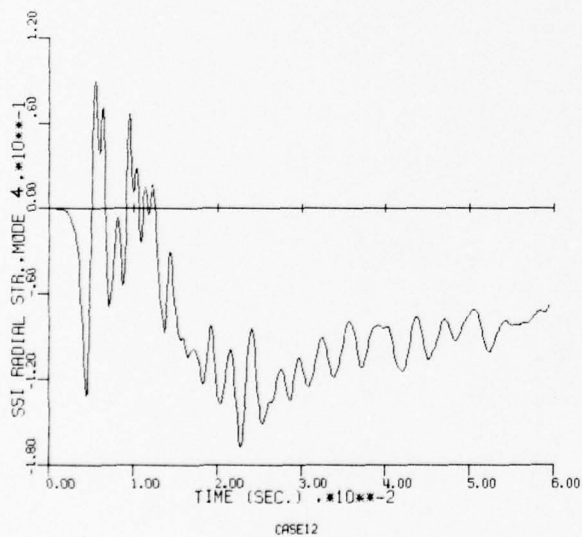
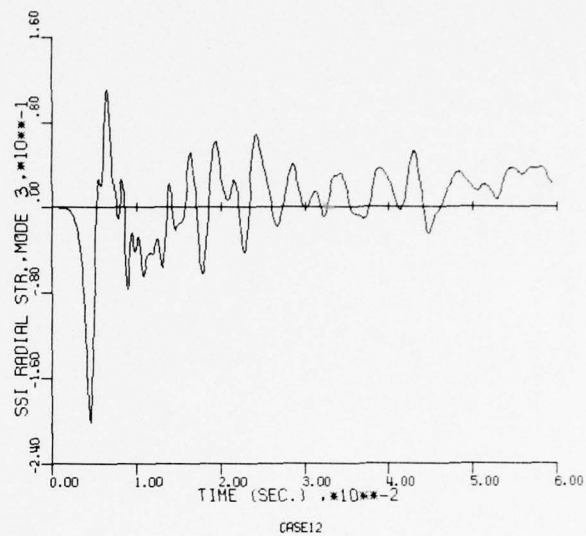
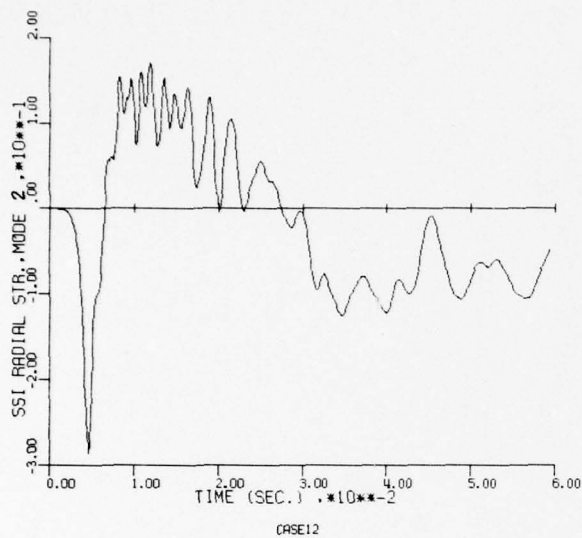
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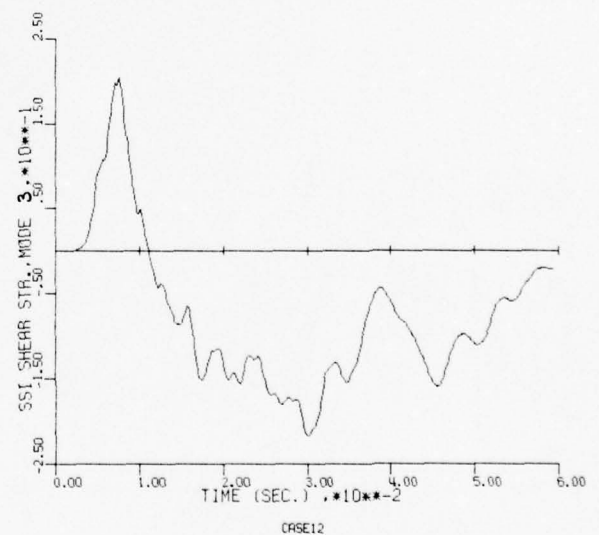
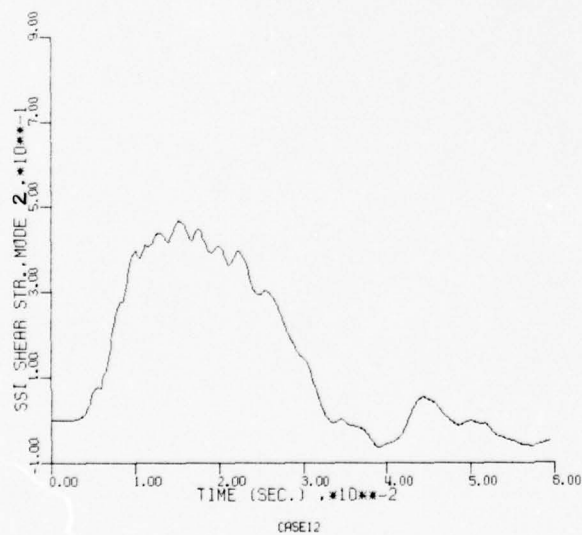
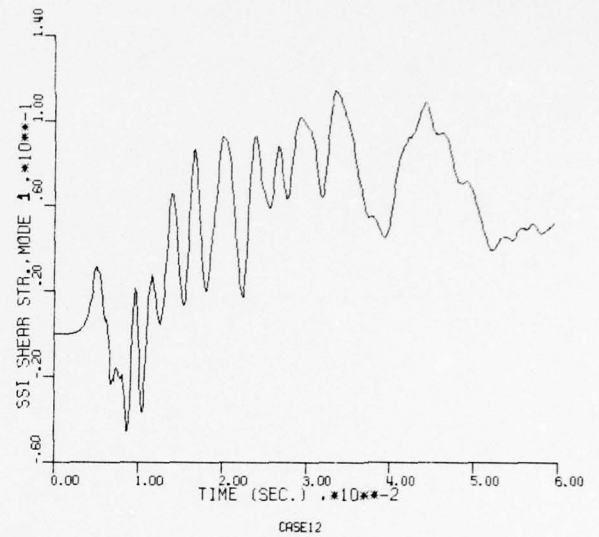
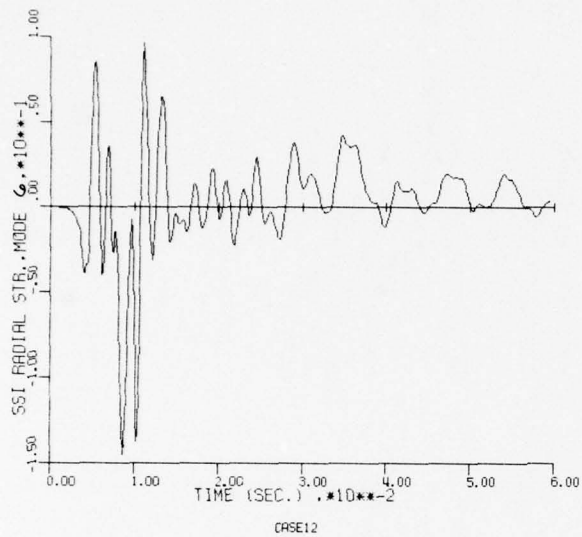
3 OF 7  
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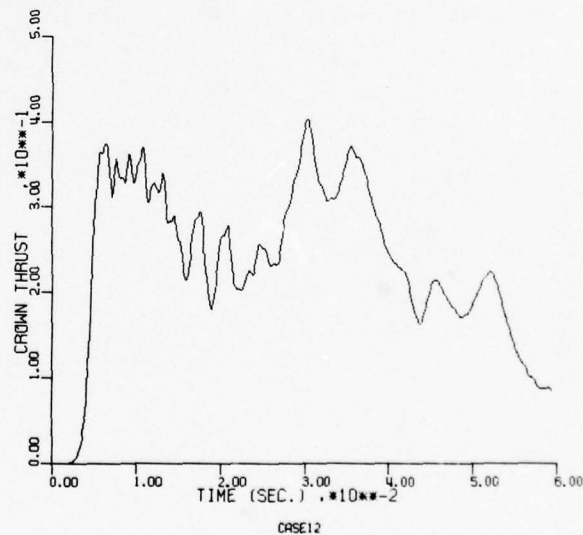
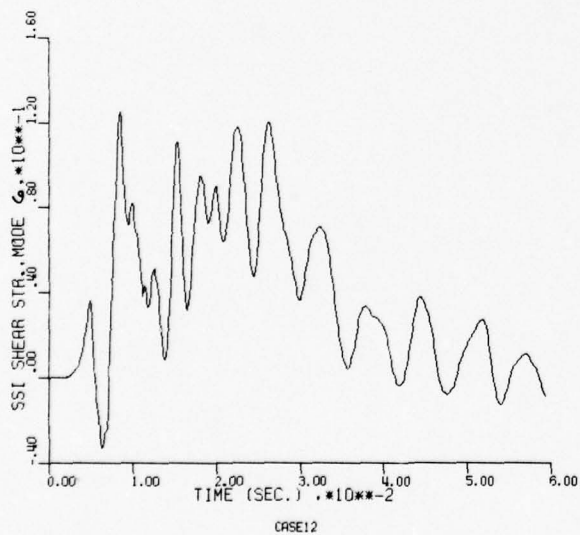
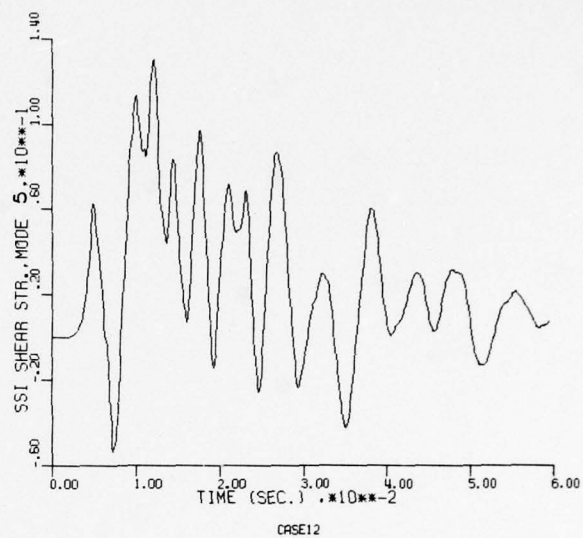
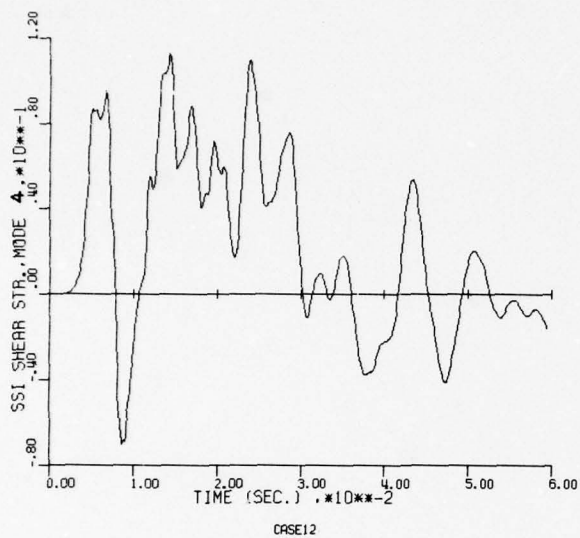


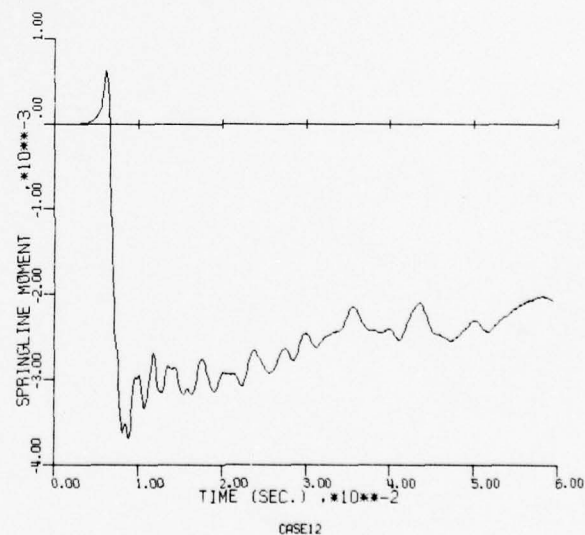
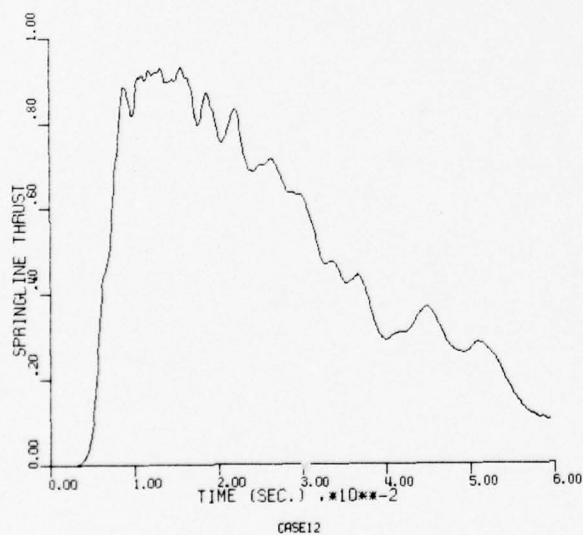
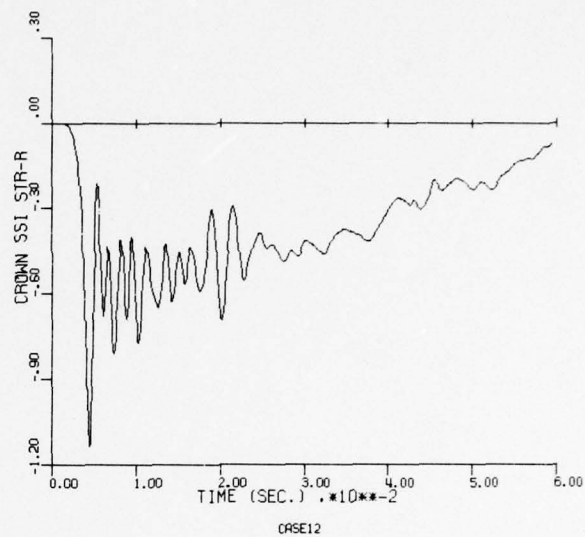
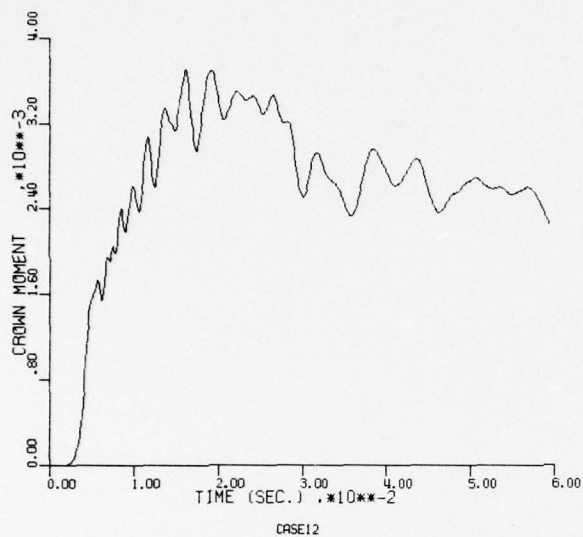


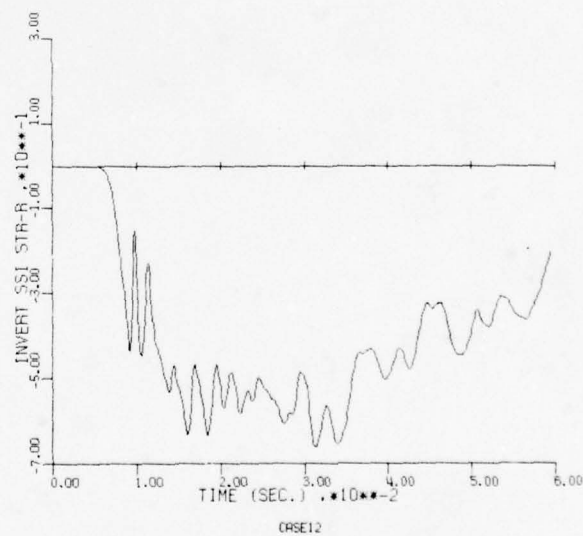
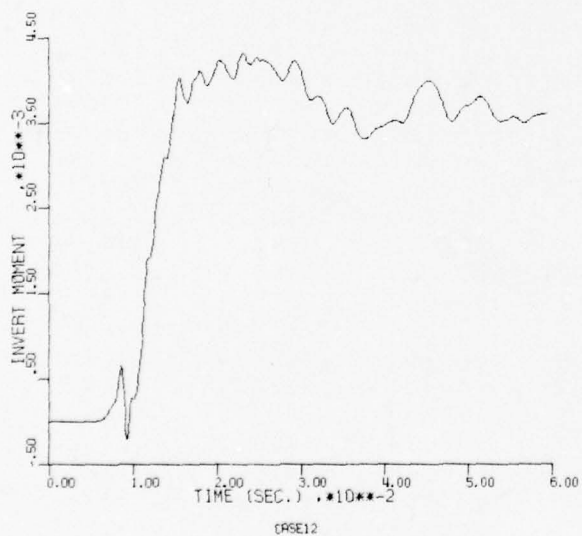
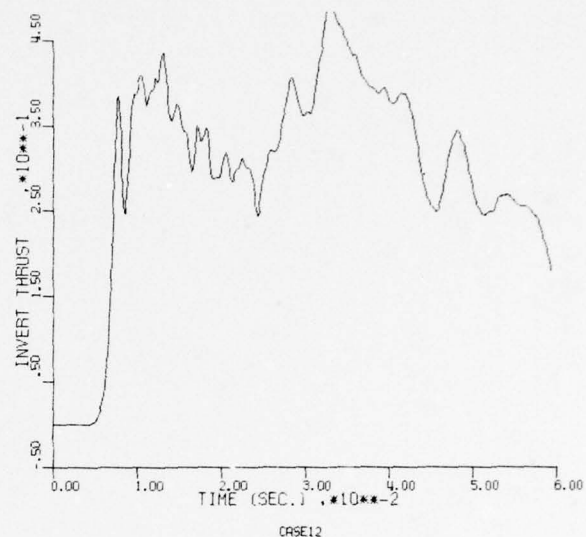
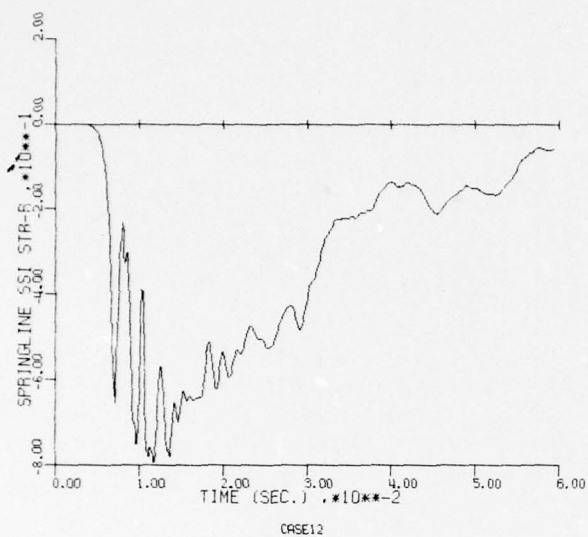














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CASE 13

MIN. VALUUS

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.041019	0.0000000	-.024077	-.840052	-.381460	-.025939
	2	-.035308	0.0000000	-.042072	-.811501	-.336053	-.060664
	3	-.039063	-.0000012	-.055798	-.765378	-.401941	-.027288
	4	-.031908	-.0001772	-.071887	-.693928	-.368690	-.087152
	5	-.030197	-.0008494	-.083626	-.669507	-.378022	-.040683
	6	-.012809	-.0017629	-.091627	-.654564	-.387900	-.046842
	7	-.004749	-.0027219	-.077213	-.636250	-.384443	-.002300
	8	0.000000	-.0035003	-.094644	-.617091	-.413619	-.039996
	9	0.000000	-.0040808	-.075585	-.582048	-.370422	-.119586
	10	0.000000	-.0045163	-.062191	-.644205	-.430053	-.238140
	11	0.000000	-.0042834	-.039791	-.611994	-.341957	-.297173
SPR	12	0.000000	-.0042625	-.062483	-.624914	-.353198	-.381924
	13	0.000000	-.0042228	-.033453	-.605927	-.400212	-.409660
	14	0.000000	-.0042136	-.014440	-.626052	-.298090	-.428689
	15	-.000000	-.0036028	-.000000	-.638051	-.274158	-.465595
	16	-.000000	-.0029163	-.000863	-.621708	-.236047	-.435920
	17	-.000000	-.0024238	-.002294	-.614785	-.263012	-.469629
	18	-.000000	-.0016984	-.006264	-.599970	-.195616	-.410511
	19	-.000000	-.0005334	-.012759	-.587179	-.247337	-.452232
	20	0.000000	-.0000000	-.019530	-.490609	-.188840	-.399884
	21	-.000000	-.0000000	-.017066	-.460451	-.237963	-.433847
	22	-.000000	-.0000000	-.030006	-.372638	-.224529	-.383124
	23	-.000000	-.0000000	-.021763	-.361146	-.220762	-.247504
INV	24	-.026298	-.0000000	-.014061	-.299307	-.241564	-.140019

MAX. VALUUS

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.420858	.0033452	.012755	0.000000	.048204	.139487
	2	.444064	.0029141	.007342	0.000000	.073182	.265941
	3	.474652	.0027324	.012835	0.000000	.017917	.368378
	4	.517559	.0023806	0.000000	.012697	.031135	.392020
	5	.573608	.0018187	.000100	.013133	.004422	.421926
	6	.624578	.0013187	.001756	0.000000	.047138	.416272
	7	.670198	.0005254	.011256	0.000000	.045570	.442570
	8	.731233	.0000000	.021124	0.000000	.100078	.322576
	9	.743029	.0000001	.040876	.000411	.018720	.299123
	10	.742786	.0000027	.056291	0.000000	.044871	.365059
	11	.779335	.0000342	.074122	0.000000	.007764	.421570
SPR	12	.754229	.0001087	.088282	.032920	.122736	.296361
	13	.752285	.0002744	.086818	.062953	.046261	.341785
	14	.712765	.0005245	.086816	0.000000	.107203	.064422
	15	.649990	.0008059	.088911	0.000000	.082397	.160904
	16	.598525	.0012610	.092794	0.000000	.100845	.029522
	17	.534871	.0015423	.083997	0.000000	.081516	.071265
	18	.473426	.0018034	.083262	.023362	0.000000	.051107
	19	.390704	.0020885	.083464	.016937	.000000	.093531
	20	.340400	.0022619	.093435	0.000000	0.000000	.030443
	21	.299107	.0026362	.072301	.000000	0.000000	.013905
	22	.274528	.0035444	.054426	0.000000	0.000000	.000000
	23	.261113	.0041333	.042202	0.000000	.038474	.019327
INV	24	.254693	.0043955	.008296	0.000000	.050263	.005195

MIN-MAX MODAL AMPLITUDES -- CASE13

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.		-.75272E-01	-.25677E+00	-.11714E+00	-.38509E-01	-.25575E-01	-.15410E-01
MAX	.47446E+00	.23760E+00	.18246E-01	.96075E-01	.28363E-01	.15842E-01	.11358E-01

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.16511E-03	-.54315E-05	0.	-.93641E-03	-.11212E-02	-.84436E-03	-.46876E-03
MAX	.41902E-07	.12540E-04	.36508E-02	.18876E-02	.88473E-03	.31429E-03	.21516E-03

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.		-.25367E-02	-.57581E-01	-.44456E-01	-.25651E-01	-.11264E-01	-.97375E-02
MAX 0.		.52698E-02	0.	.22722E-01	.28860E-01	.27183E-01	.18168E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.45063E+00	-.32224E+00	-.18813E+00	-.11041E+00	-.62481E-01	-.54119E-01	-.43716E-01
MAX 0.		.13026E+00	.17024E+00	.67732E-01	.72468E-01	.70233E-01	.67032E-01

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.		-.11123E+00	-.17078E-01	-.19605E+00	-.79598E-01	-.37922E-01	-.19805E-01
MAX 0.		.49304E-01	.38069E+00	.22713E+00	.90492E-01	.91195E-01	.64573E-01

CASE 13

[illegible]

CRUWN MOMLNT									
*****									
	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-5	MODES 0-6	INPUT	
SRSS	.053342	.053381	.018699	.004286	.000546	.002682	.000255	VARIABLE	.13545E-03
MIN.	-.000165	-.000162	0.000000	0.000000	0.000000	0.000000	0.000000		0.
MAX.	.000013	.000338	1.057549	1.155910	1.032632	.905507	.878785		.33452E-02

[illegible]

```

SPRINGLINE THRUST
*****
MODE 0      MODLS 0=1  MODCS 0=2  MODES 0=3  VARIABLE 0=4  MODES 0=5  MODES 0=6  INPUT
VARIABLE
.002621      .002849      .000884      .001032      .001365      .001170      .000494      .22211E-01
0.000000      0.000000      -.000000      -.000002      -.000016      -.000052      -.000000      0.
.629009      .038927      .945910      .954896      .990774      .987996      1.003681      .75423E+00

```



SPRINGLINE MOMENT

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .047807    .011501    .007739    .004661    .003760    .001763
MIN.    .038736    .873018    .849366    1.027700    1.013370    1.000665
MAX.    .000385    0.000000    0.000000    .798224    1.628152    1.113563
VARIABLE *****
INPUT    .16462E-03
          -.42625E-02
          .10872E-03
  
```

SPRINGLINE SSI STR-R

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .011258    .001817    .003571    .005363    .005504    .008451
MIN.    .721101    .985122    .983867    .929992    .913066    .917125
MAX.    0.000000    0.000000    1.226486    0.000000    0.000000    .001231
VARIABLE *****
INPUT    .17934E-01
          -.62491E+00
          .32920E-01
  
```

INVERT THRUST

```

*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .000172    .004786    .002522    .001512    .000230    .002282
MIN.    0.000000    0.000000    .000048    .492770    .621674    .708005
MAX.    1.862876    1.752338    1.089234    1.048268    1.033335    1.002249
VARIABLE *****
INPUT    .73143E-02
          -.26298E-01
          .25469E+00
  
```

INVERT MOMENT

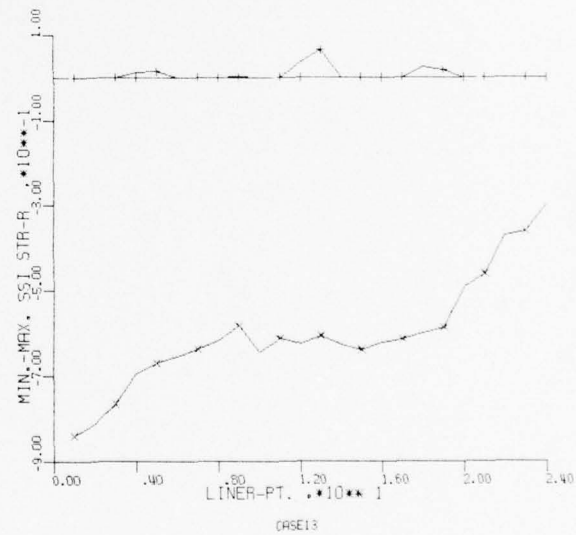
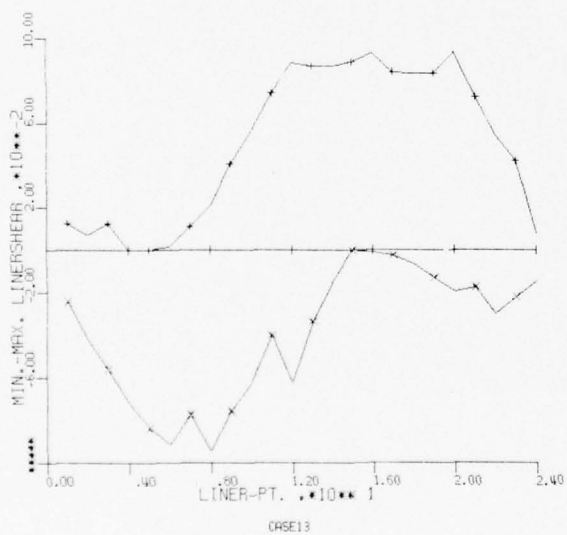
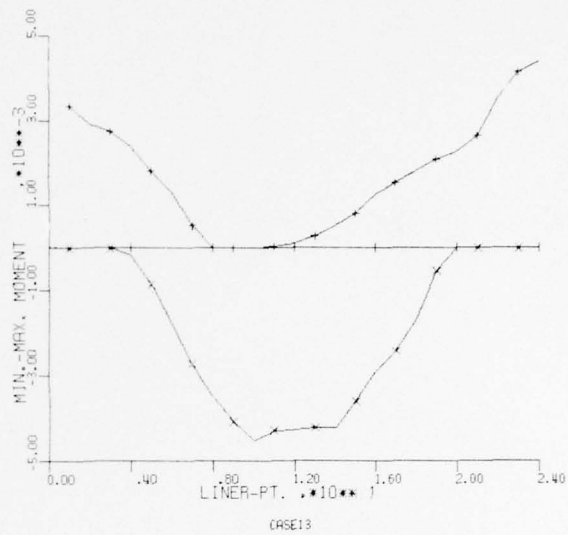
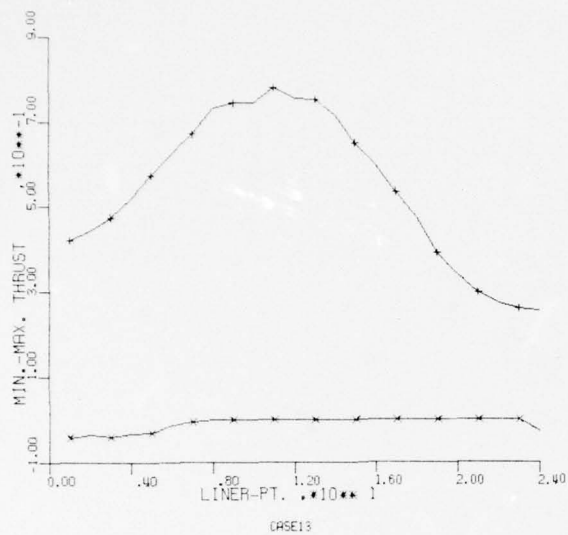
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*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .075854    .014477    .005084    .008267    .005520    .003455
MIN.    -.000165    0.000000    -.000650    -.000439    -.000070    -.000071
MAX.    .000010    0.000000    .806106    1.004059    1.034677    1.037842
VARIABLE *****
INPUT    .15916E-03
          -.10519E-09
          .43955E-02
  
```

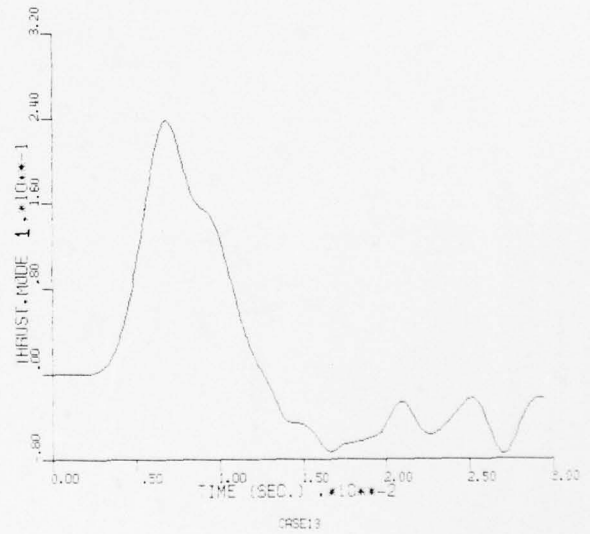
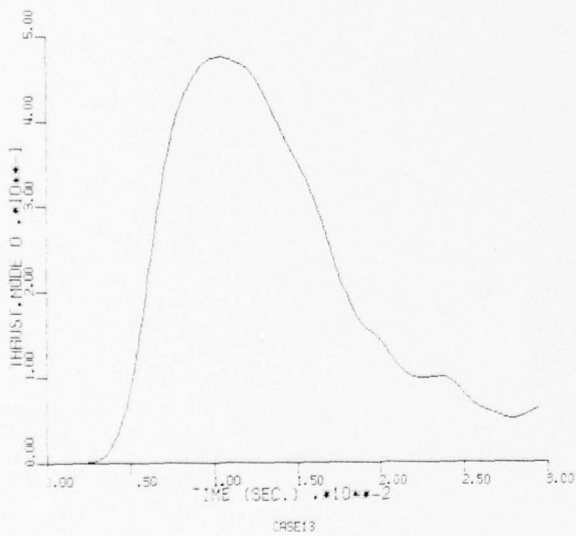
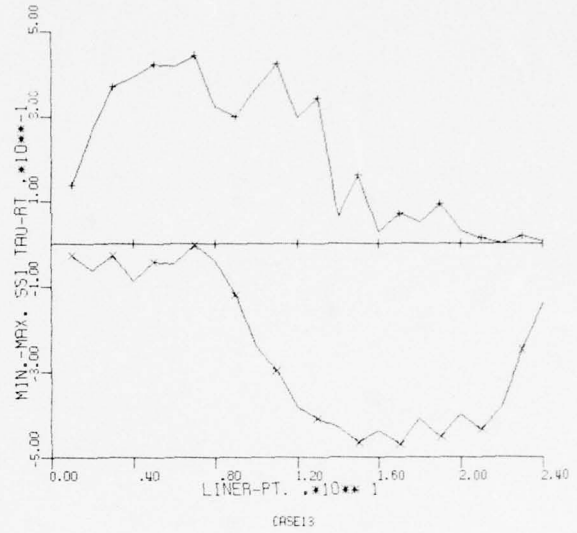
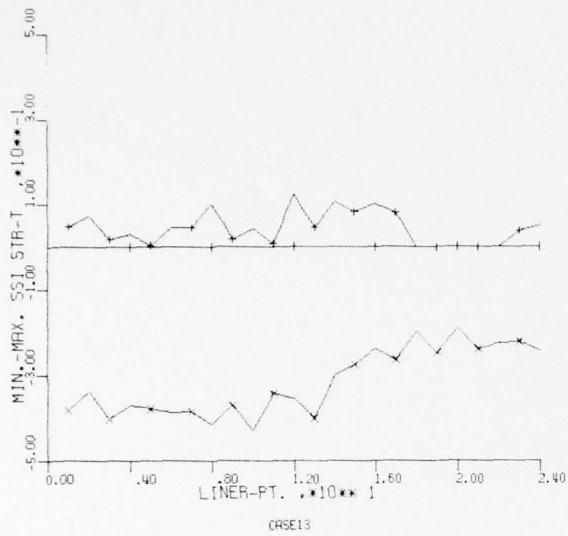
INVERT SSI STR-R

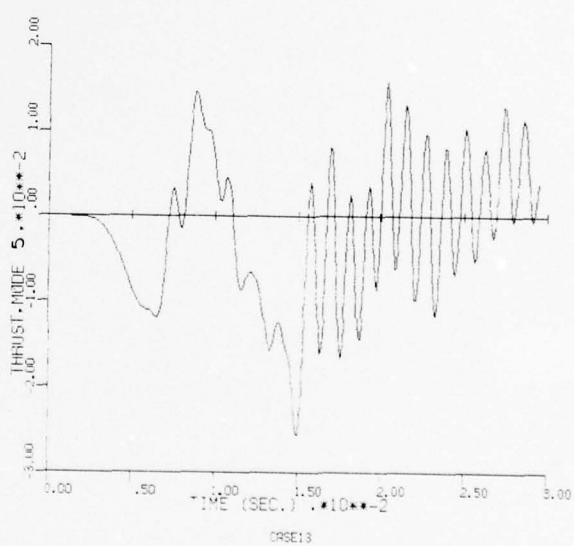
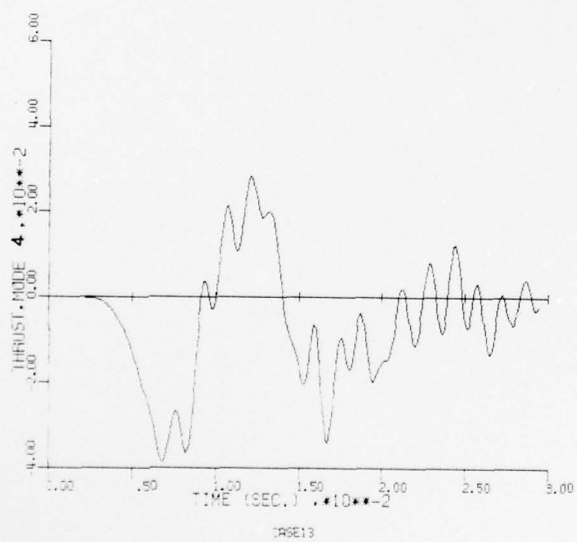
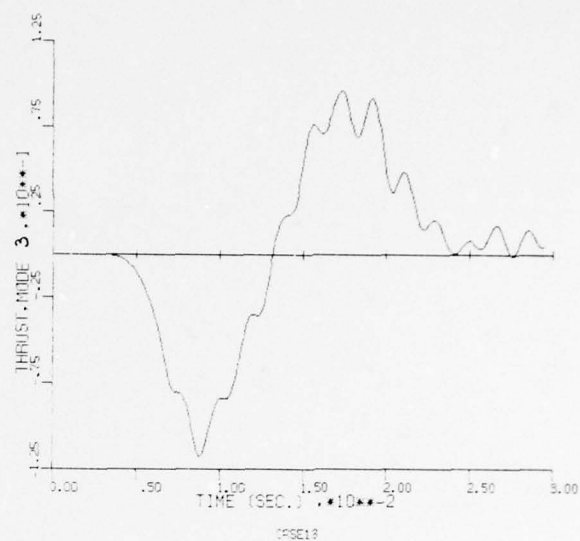
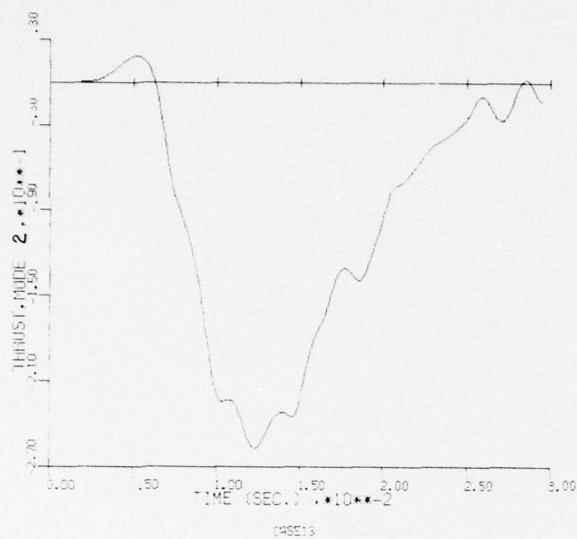
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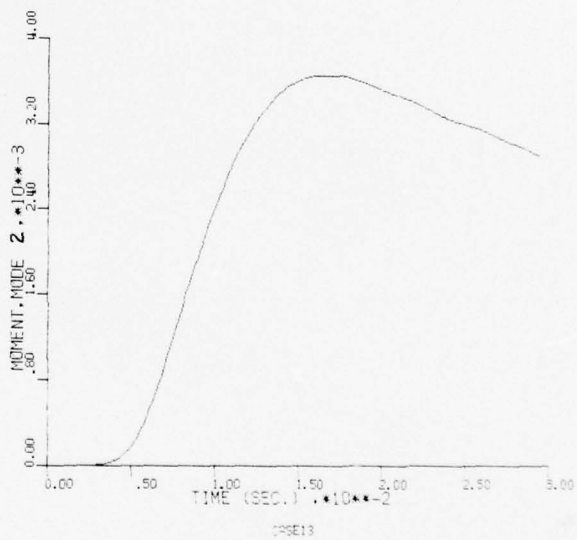
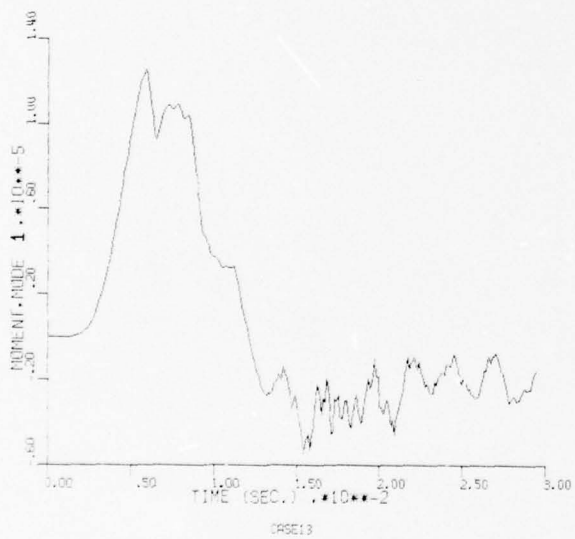
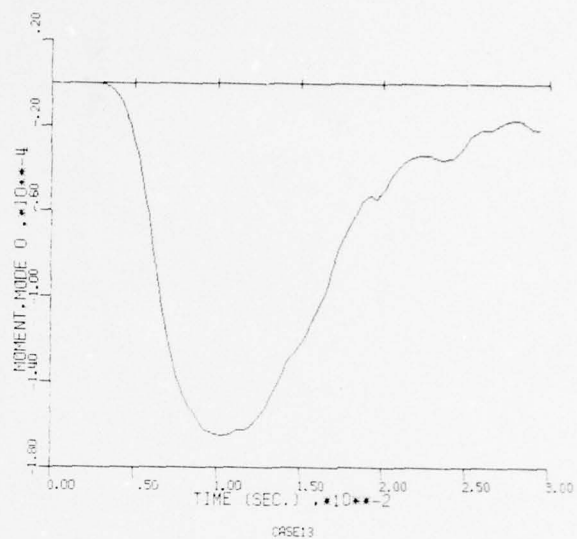
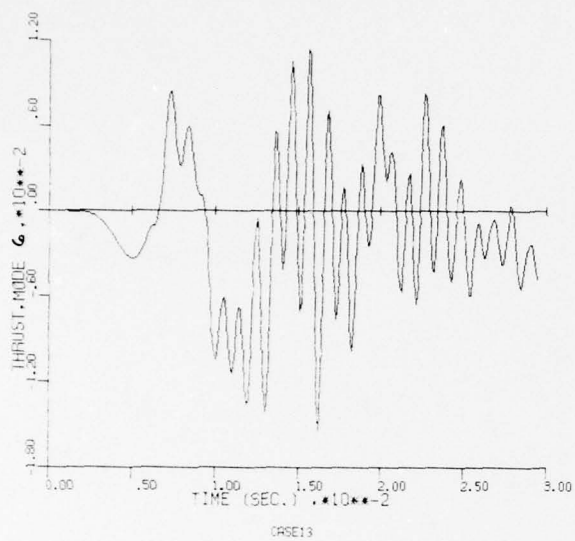
*****
MODE 0  MODS 0-1  MODS 0-2  MODS 0-3  MODS 0-4  MODS 0-5  MODS 0-6
SRSS    .015125    .017020    .033927    .037365    .036572    .030919
MIN.    1.505565    1.574055    1.163348    1.125764    1.146110    1.133312
MAX.    0.000000    .115751    0.000000    0.000000    .008930    .011505
VARIABLE *****
INPUT    .93493E-02
          -.29931E+00
          0.
  
```

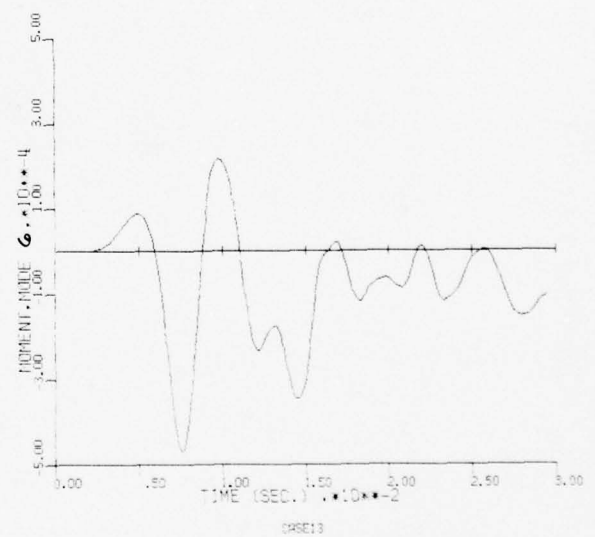
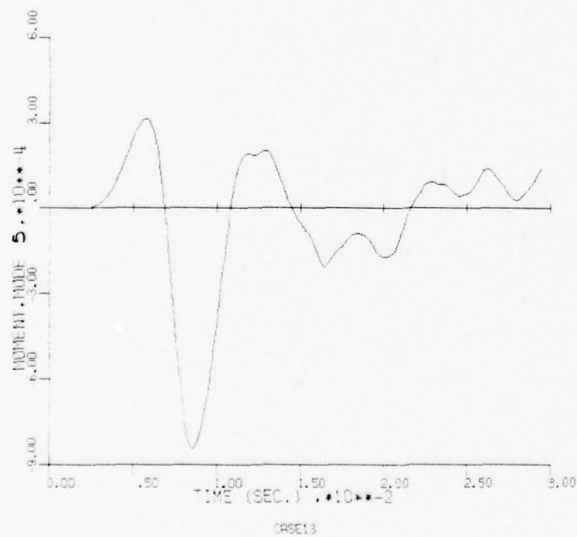
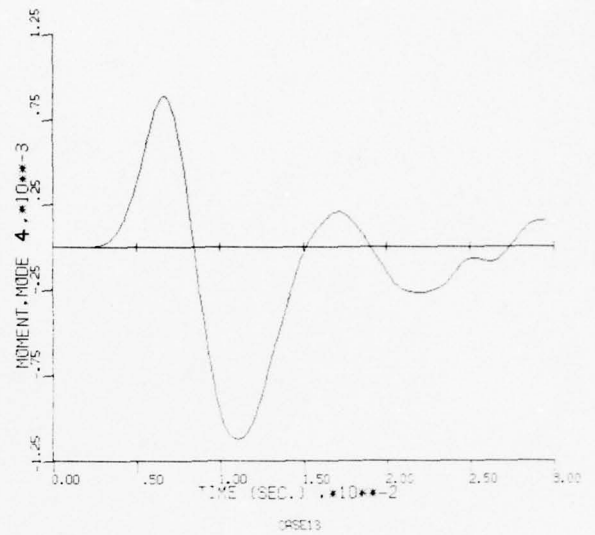
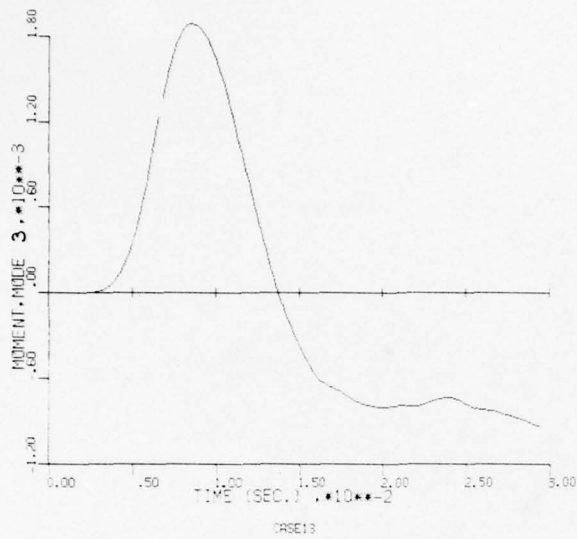


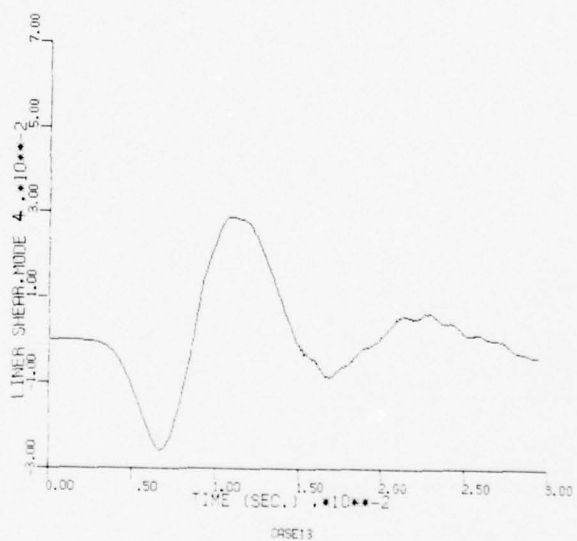
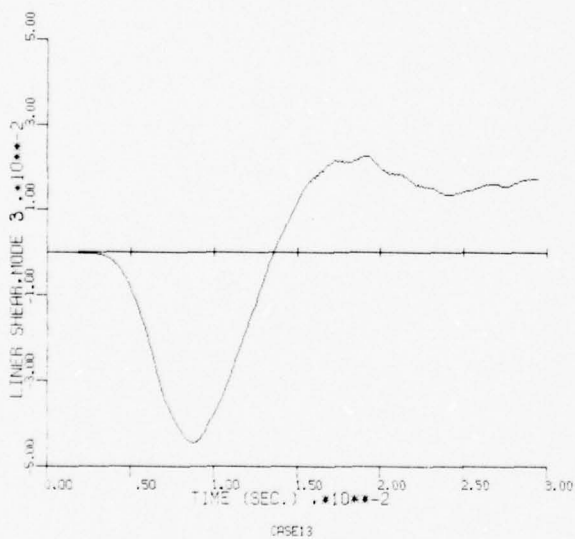
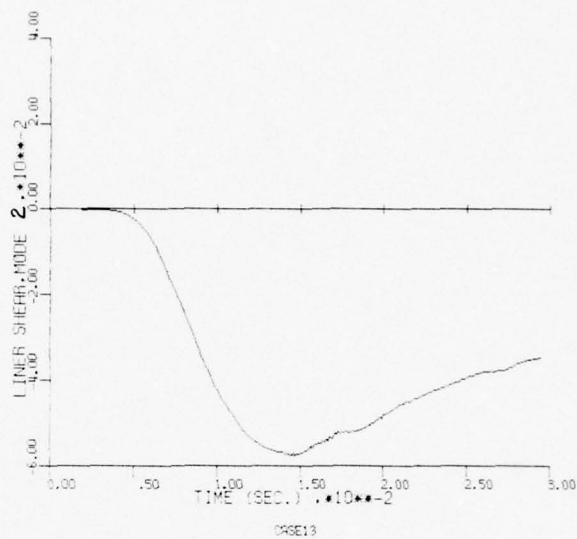
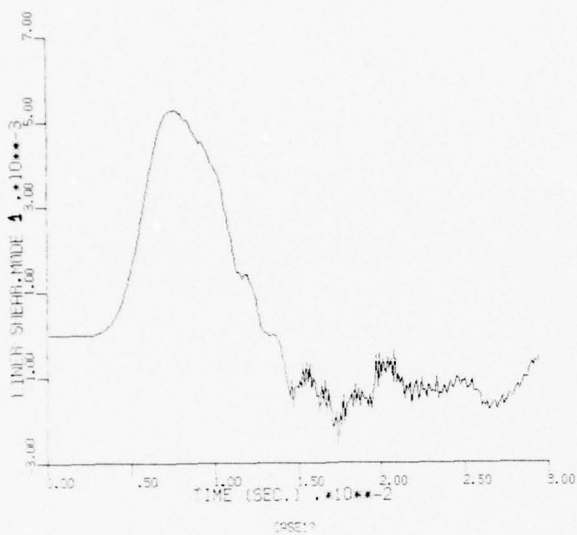




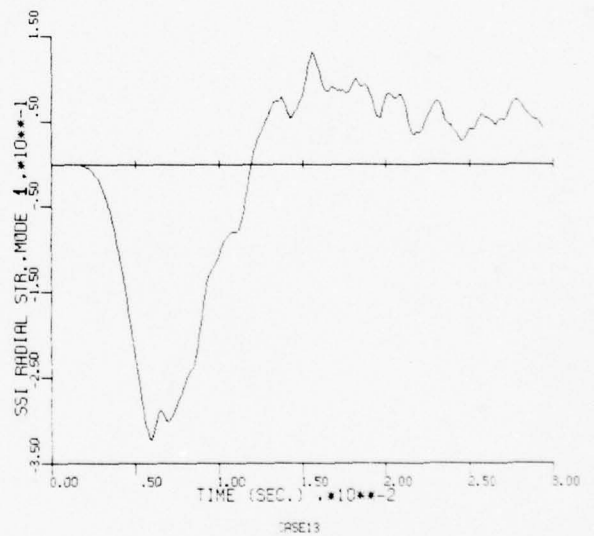
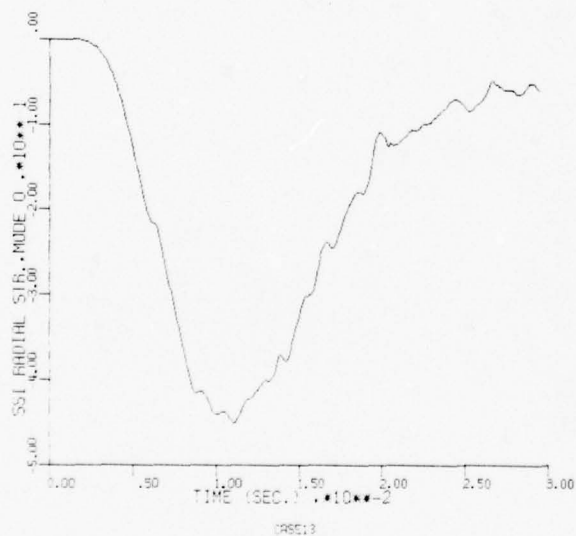
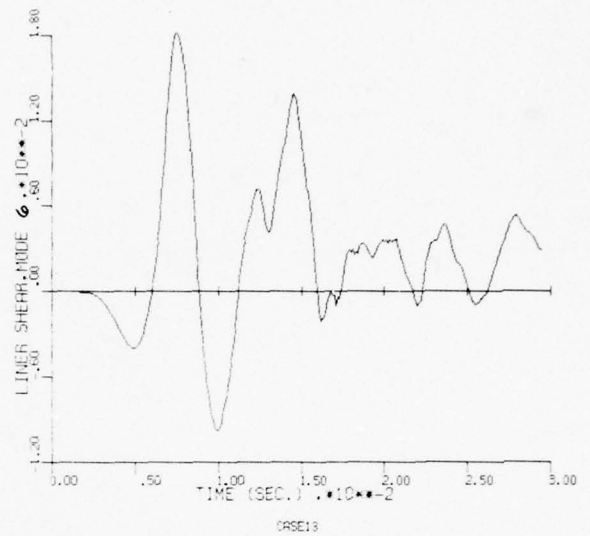
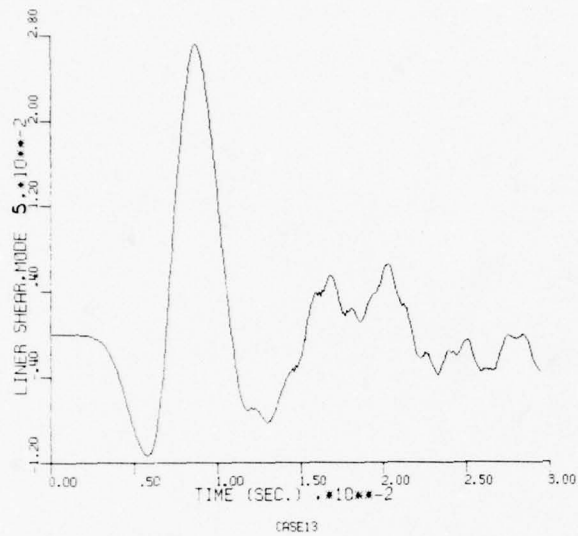


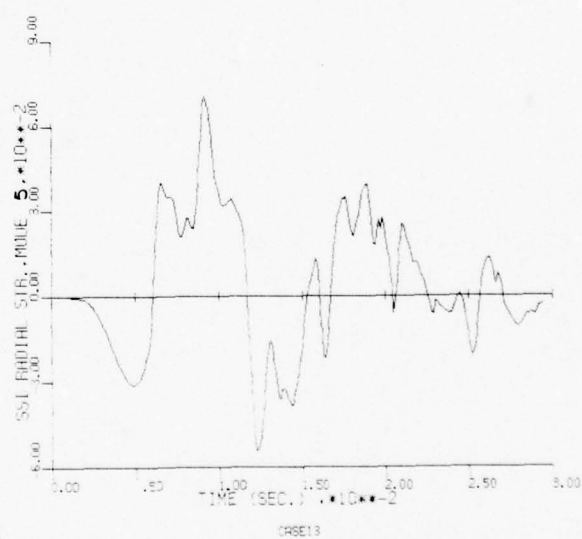
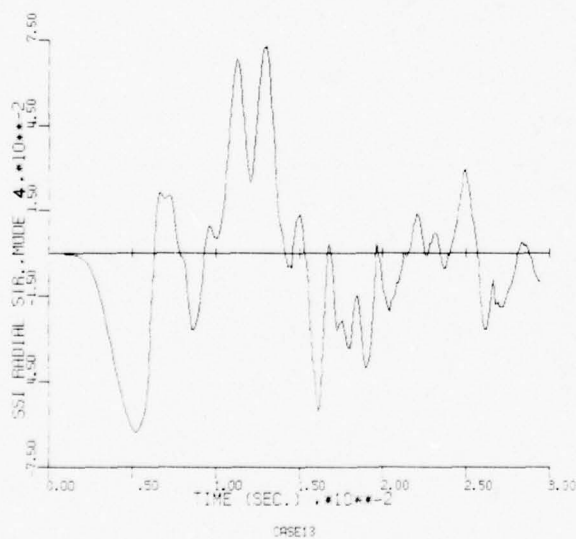
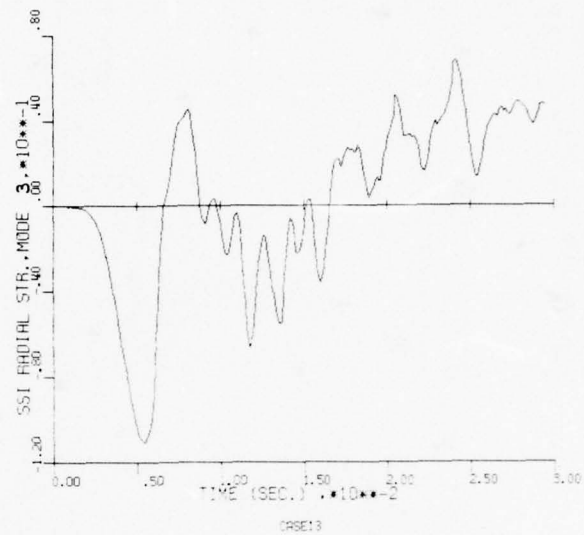
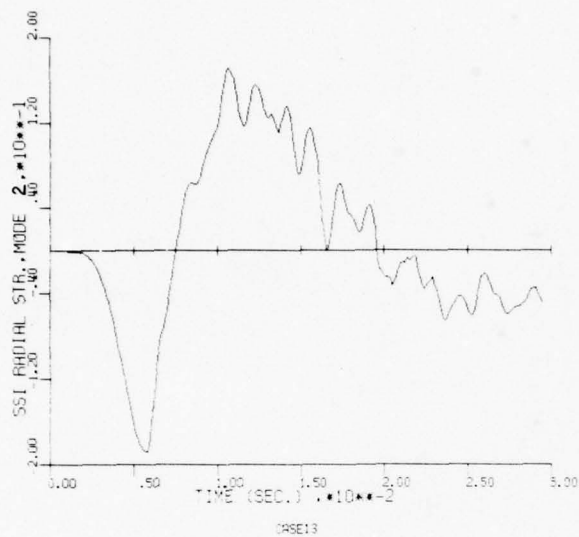


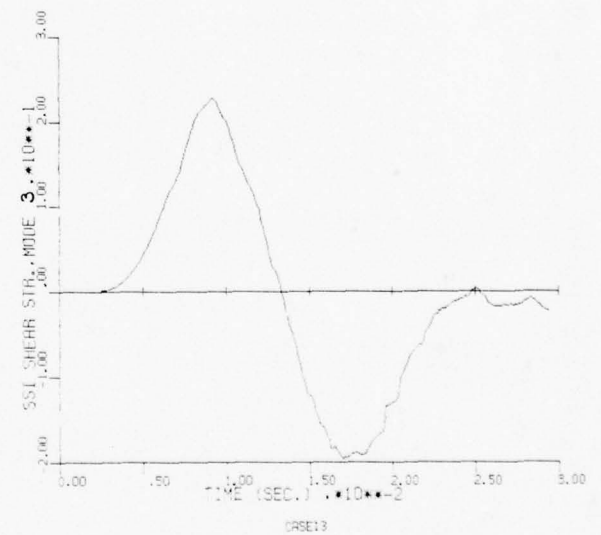
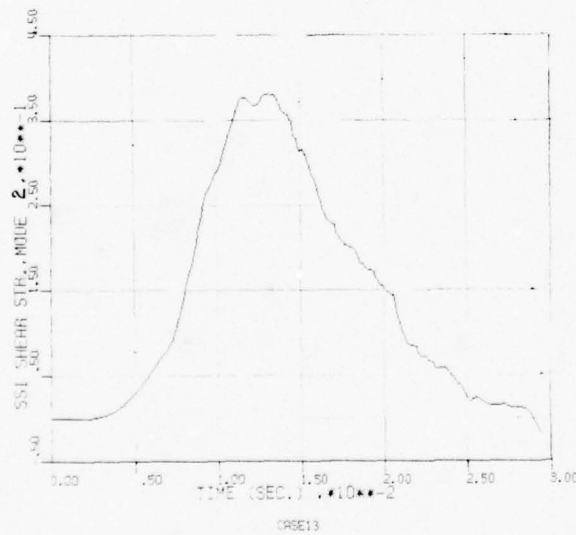
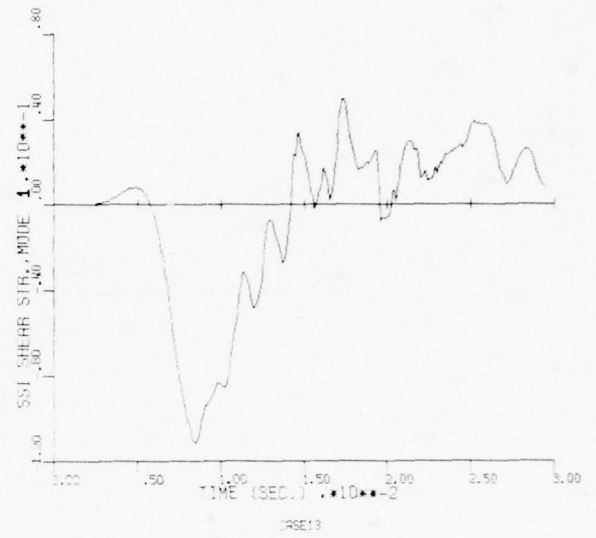
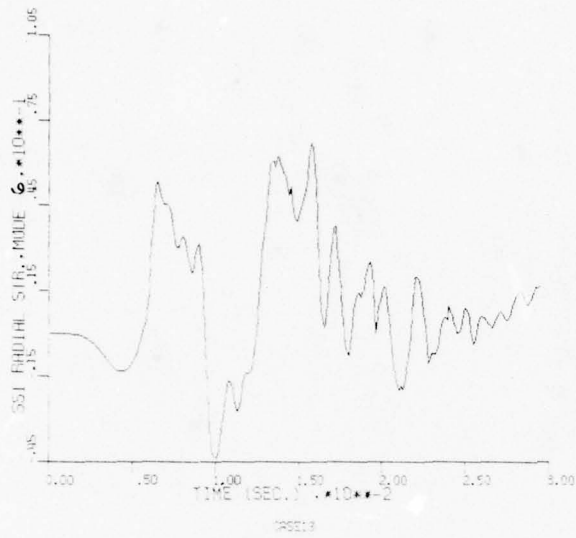


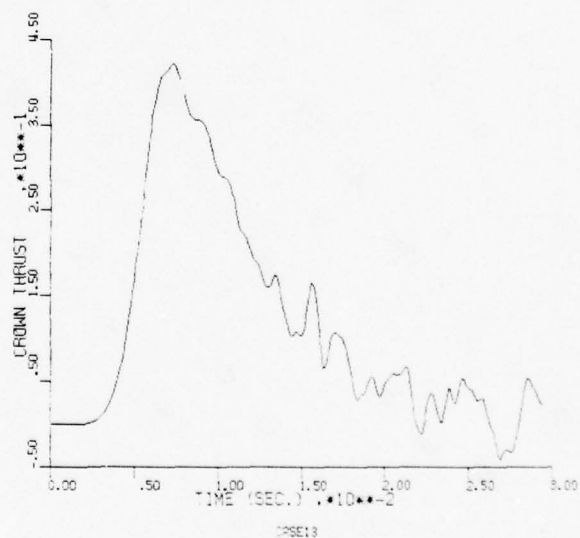
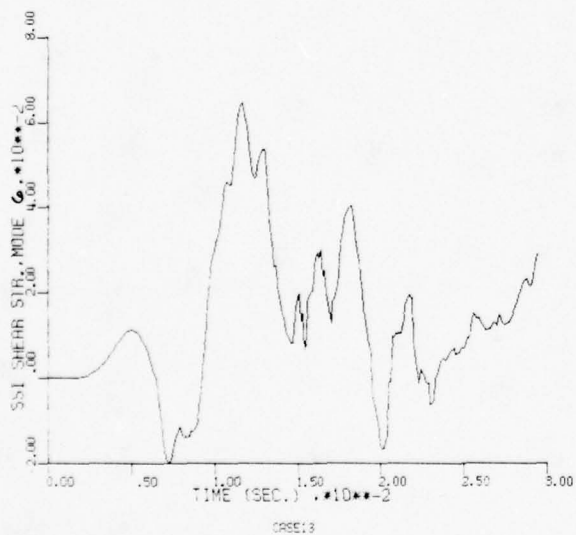
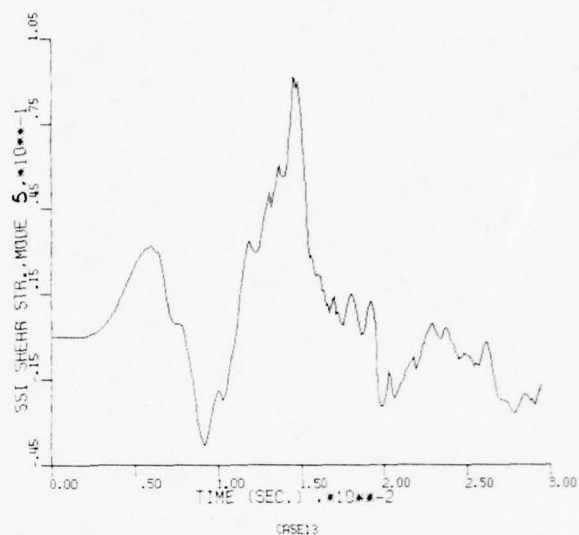
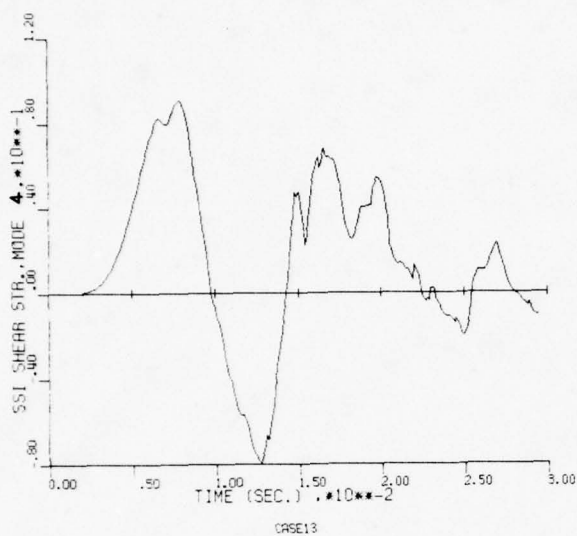


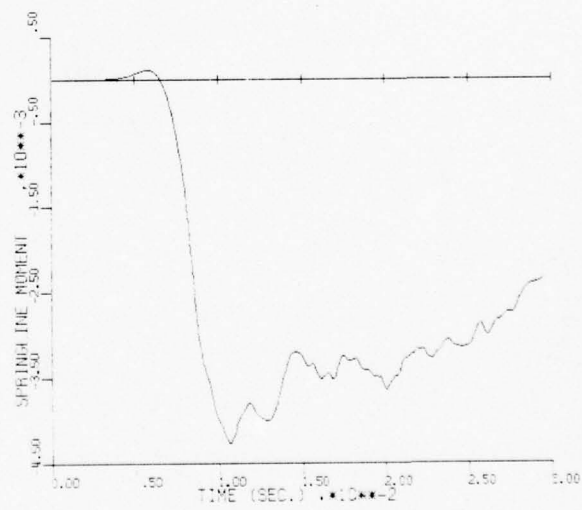
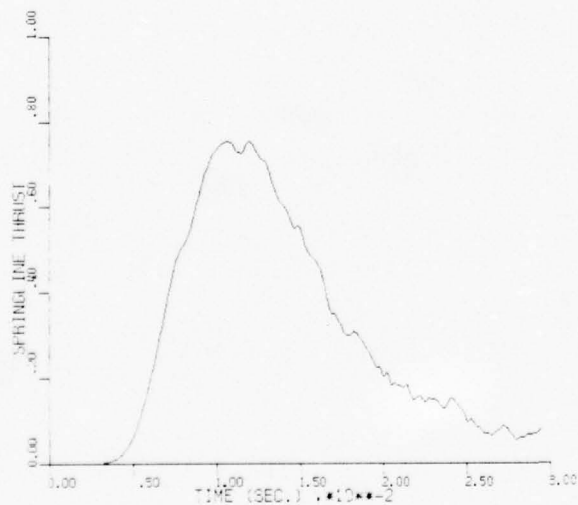
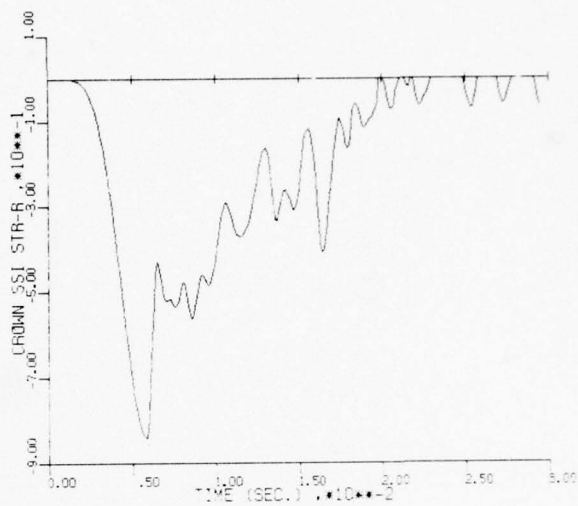
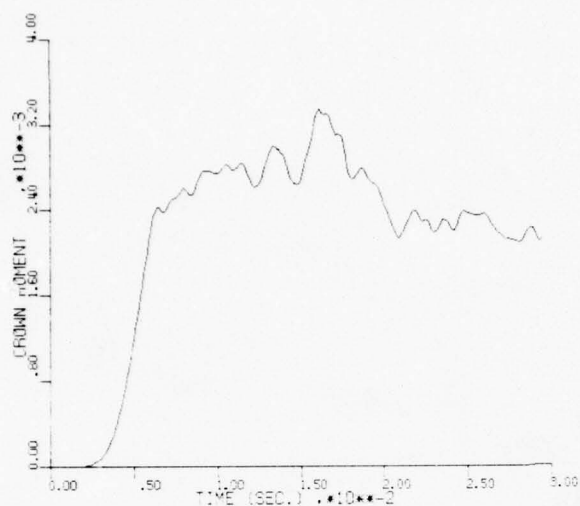




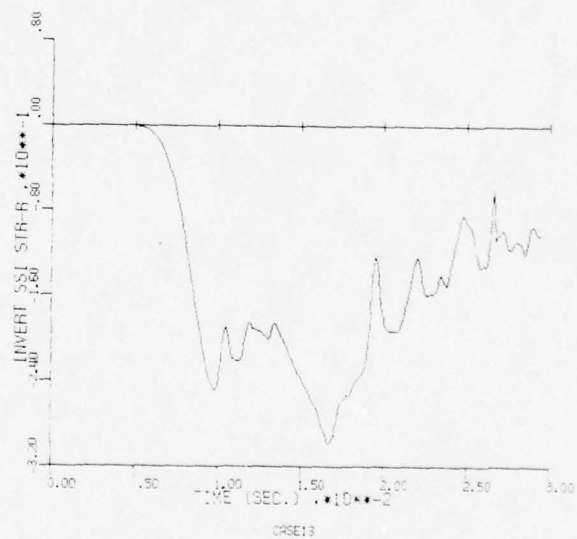
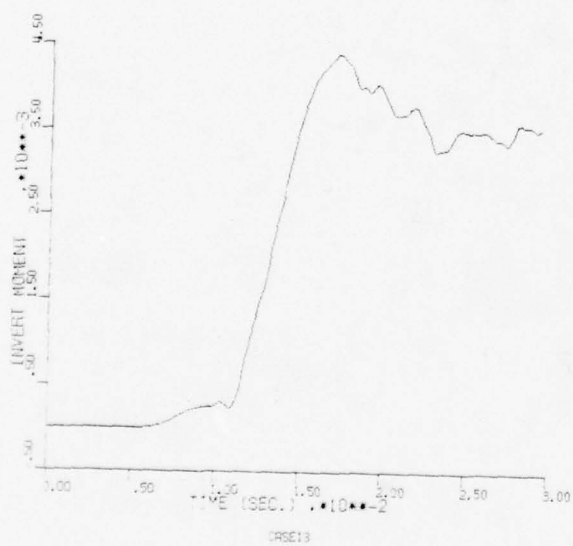
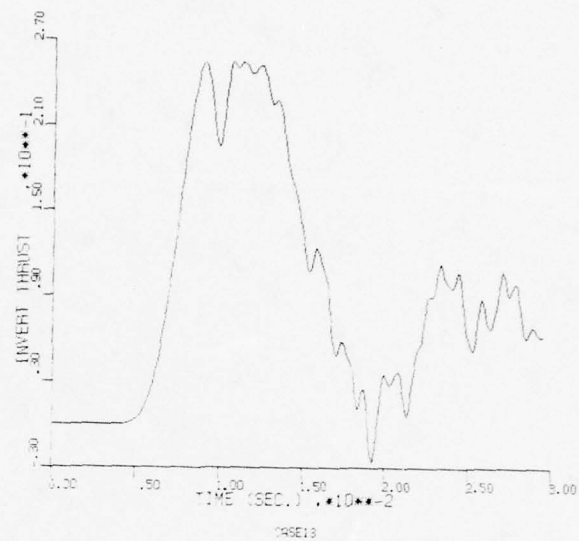
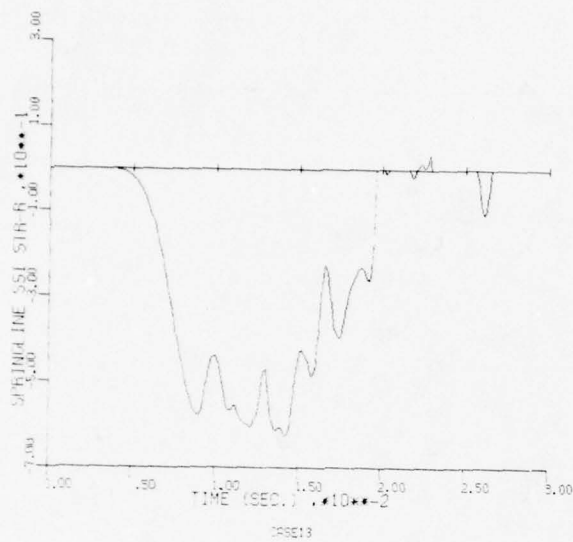












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CASE 14

MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.014164	0.0000000	-.023082	-1.085194	-.562023	-.017926
	2	-.013253	0.0000000	-.022744	-1.097707	-.545011	-.003580
	3	-.010720	-.0000017	-.060706	-1.001981	-.489127	-.030588
	4	-.009604	-.0003628	-.078527	-.794474	-.425609	0.000000
	5	-.009669	-.0012087	-.080818	-.719134	-.464081	-.005197
	6	-.006554	-.0019572	-.107140	-.691405	-.488456	0.000000
	7	-.005188	-.0028708	-.082164	-.636869	-.550821	-.006555
	8	0.000000	-.0033771	-.089809	-.724930	-.678302	-.049558
	9	0.000000	-.0037664	-.047277	-.662318	-.577495	-.118638
	10	0.000000	-.0036360	-.080428	-.872580	-.669863	-.258653
	11	0.000000	-.0039088	-.047781	-.641189	-.679840	-.313898
SPR	12	0.000000	-.0037173	-.042755	-.658575	-.729504	-.337575
	13	0.000000	-.0033843	-.035412	-.835660	-.695619	-.413323
	14	0.000000	-.0031978	-.021005	-.634695	-.523274	-.397129
	15	-.000000	-.0030675	-.025011	-.745807	-.518608	-.460182
	16	-.000000	-.0025993	-.032383	-.671625	-.393064	-.385461
	17	-.000000	-.0022919	-.042228	-.689611	-.416343	-.443266
	18	-.000000	-.0018898	-.041087	-.556248	-.296317	-.371872
	19	-.000000	-.0009614	-.047392	-.703008	-.342965	-.411453
	20	0.000000	-.0001647	-.036711	-.521320	-.253801	-.334246
	21	-.000000	-.0001523	-.043896	-.553503	-.322507	-.361776
	22	-.000000	-.0003288	-.036260	-.484247	-.307226	-.328115
	23	-.000000	-.0000000	-.027291	-.464810	-.354282	-.279831
INV	24	-.000000	-.0002183	-.022426	-.408877	-.347360	-.191388

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.349174	.0023990	.010172	.002718	.013652	.153717
	2	.360689	.0023431	.018084	0.000000	.009995	.312396
	3	.400774	.0024904	0.000000	.013531	.039411	.371362
	4	.451547	.0020034	0.000000	0.000000	.031955	.351175
	5	.504483	.0012624	.000104	.023728	.018595	.392977
	6	.553222	.0007291	.011984	.005269	.042506	.332562
	7	.596529	.0003422	.040310	.003895	.014314	.342596
	8	.649467	.0000000	.056694	.018026	.002266	.338597
	9	.672558	.0000001	.084547	0.000000	.012703	.360564
	10	.701601	.0000028	.099687	.001590	.001383	.238693
	11	.744586	.0002137	.101631	0.000000	0.000000	.332536
SPR	12	.775249	.0006062	.119298	.024394	.007775	.278630
	13	.744232	.0009317	.104003	.037755	0.000000	.381735
	14	.713573	.0013166	.112766	.026970	.005724	.109185
	15	.677246	.0014838	.099463	.030878	0.000000	.213350
	16	.646757	.0016962	.095951	.029040	0.000000	.085326
	17	.587500	.0016521	.073538	.019262	.017799	.041107
	18	.538075	.0018868	.089012	.037394	.006468	.042897
	19	.452885	.0021461	.070840	.003353	.058389	.007579
	20	.411781	.0021290	.102602	.018050	.023176	.012919
	21	.350564	.0022349	.074643	.000000	0.000000	.090468
	22	.323236	.0031846	.057447	0.000000	.011341	.057898
	23	.321878	.0035805	.034979	0.000000	0.000000	.002725
INV	24	.332026	.0037014	.020563	0.000000	0.000000	.006331

MIN-MAX MODAL AMPLITUDES -- CASE 14

LINER THRUST PLAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.94164E-01	-.23869E+00	-.12883E+00	-.51561E-01	-.30404E-01	-.26480E-01
MAX	.47201E+00	.24391E+00	.72305E-01	.37208E-01	.22304E-01	.15599E-01
LINER MUMENT PLAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.16543E-03	-.55788E-05	-.91922E-03	-.92024E-03	-.89947E-03	-.73311E-03
MAX	.44907E-07	.15509E-04	.14111E-02	.80426E-03	.52488E-03	.58130E-03
LINER SHEAR PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.27956E-02	-.15946E-01	-.36434E-01	-.24598E-01	-.19449E-01	-.25599E-01
MAX 0.	.42294E-02	0.	.20594E-01	.25743E-01	.29867E-01	.28383E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.16440E+00	-.34771E+00	-.19173E+00	-.12415E+00	-.12769E+00	-.12896E+00
MAX 0.	.14314E+00	.16319E+00	.10566E+00	.89878E-01	.10096E+00	.84581E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.62228E-01	-.10530E-02	-.16387E+00	-.75490E-01	-.49597E-01	-.34835E-01
MAX 0.	.70322E-01	.34731E+00	.20309E+00	.88713E-01	.97923E-01	.97946E-01

CASE 14

CROWN THRUST

MODE 0		MODES 0-1		MODES 0-2		MODES 0-3		MODES 0-4		MODES 0-5		MODES 0-6		INPUT VARIABLE
SRSS	.01119	.002152	.003287	.002696	.003049	.002915	.000879	.000879	.000879	.000879	.000879	.000879	.000879	.94059E-02
MIN.	0.000000	.464111	2.117031	.534932	1.239482	.909461	.995383	.995383	.995383	.995383	.995383	.995383	.995383	-.14164E-01
MAX.	1.354075	1.554447	1.306162	1.083133	.970796	.973285	.994709	.994709	.994709	.994709	.994709	.994709	.994709	.34917E+00

CROWN MOMENT

MODE 0		MODES 0-1		MODES 0-2		MODES 0-3		MODES 0-4		MODES 0-5		MODES 0-6		INPUT VARIABLE
SRSS	.054138	.054179	.022301	.009294	.001079	.002852	.002689	.002689	.002689	.002689	.002689	.002689	.002689	.10721E-03
MIN.	-.000165	-.000167	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.
MAX.	.000019	.001752	1.146530	1.179966	1.071890	1.074012	1.026516	1.026516	1.026516	1.026516	1.026516	1.026516	1.026516	.23990E-02

CROWN SSI STR-R

MODE 0		MODES 0-1		MODES 0-2		MODES 0-3		MODES 0-4		MODES 0-5		MODES 0-6		INPUT VARIABLE
SRSS	.000807	.006344	.002625	.006208	.000070	.000278	.002535	.002535	.002535	.002535	.002535	.002535	.002535	.18234E-01
MIN.	.427938	.587936	.742143	.907167	1.003558	1.056186	1.070254	1.070254	1.070254	1.070254	1.070254	1.070254	1.070254	-.10852E+01
MAX.	0.000000	9.636485	0.000000	10.425771	0.000000	1.508255	2.359548	2.359548	2.359548	2.359548	2.359548	2.359548	2.359548	.27175E-02

SPRINGLINE THRUST

MODE 0		MODES 0-1		MODES 0-2		MODES 0-3		MODES 0-4		MODES 0-5		MODES 0-6		INPUT VARIABLE
SRSS	.000366	.000692	.001165	.001116	.000969	.000988	.000140	.000140	.000140	.000140	.000140	.000140	.000140	.22584E-01
MIN.	0.000000	0.000000	-.000000	-.000002	-.000017	-.000054	-.000000	-.000000	-.000000	-.000000	-.000000	-.000000	-.000000	0.
MAX.	.609879	.614571	.916399	.925148	.966334	.958774	.980887	.980887	.980887	.980887	.980887	.980887	.980887	.77525E+00



SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT  
SRSS .052378 MODS 0-2 MODS 0-3  
MIN. .044503 .010516 .005348  
MAX. .000074 .000112 0.000000 .774661  
VARIABLE \*\*\*\*\*  
INPUT  
VARIABLE  
.13038E-03  
-.37173E-02  
.60620E-03

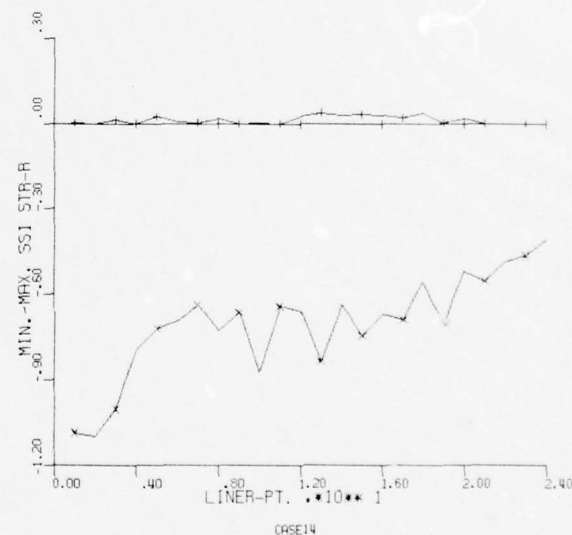
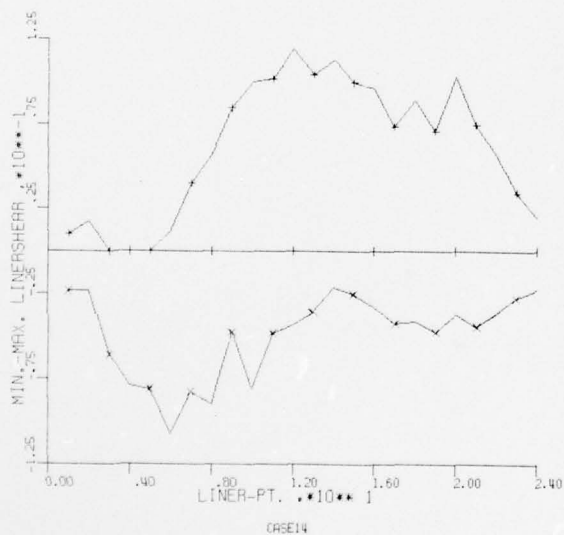
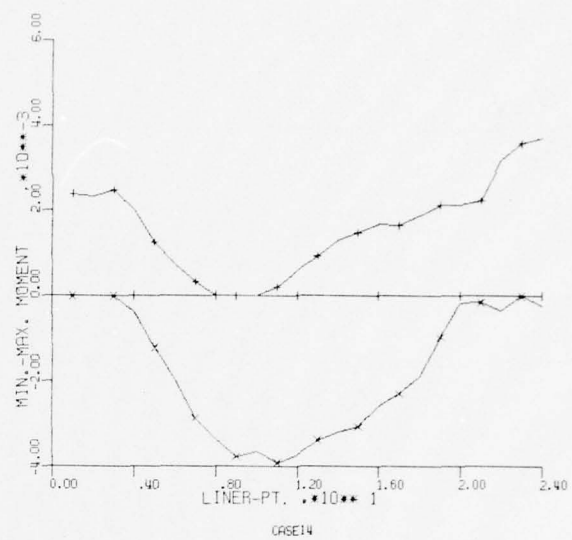
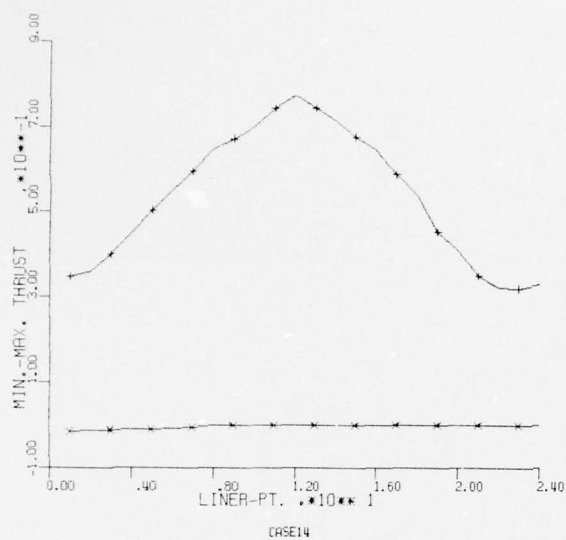
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT  
SRSS .008324 MODS 0-2 MODS 0-3  
MIN. .705152 .007836 .001419 .000394  
MAX. 0.000000 .708923 .925687 .915679  
VARIABLE \*\*\*\*\*  
INPUT  
VARIABLE  
.17670E-01  
-.65857E+00  
.24394E-01

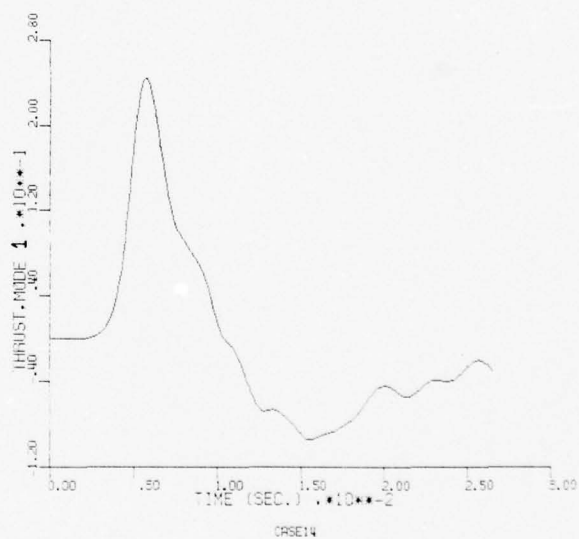
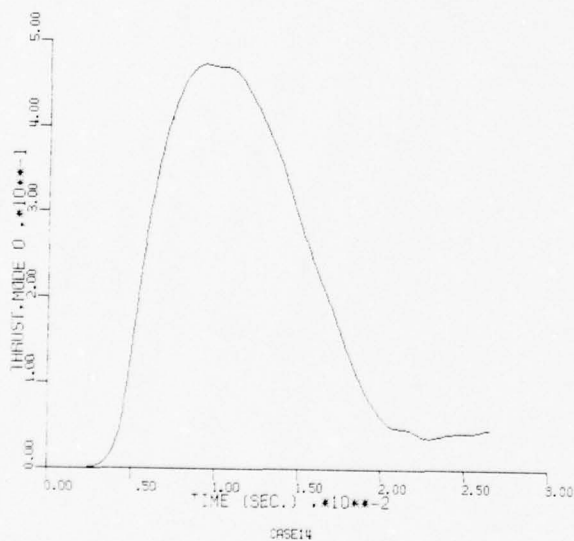
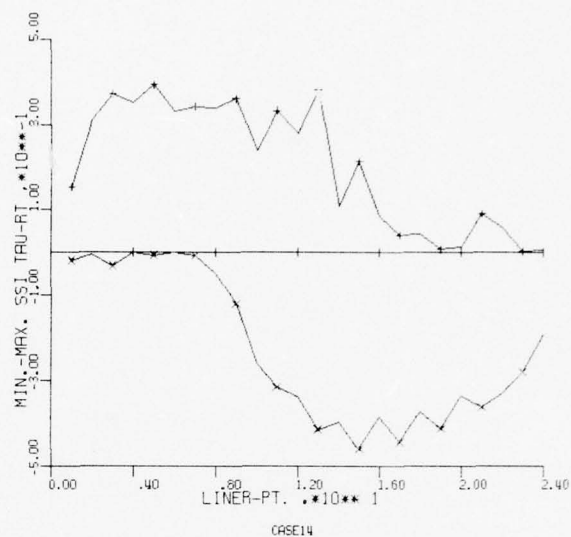
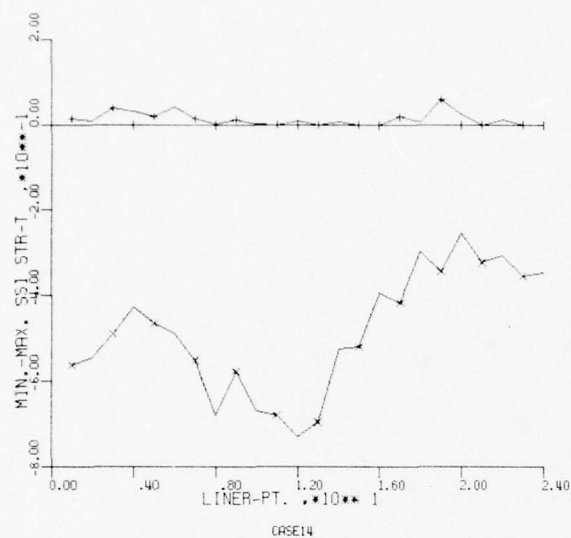
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT  
SRSS .011946 MODS 0-2 MODS 0-3  
MIN. 0.000000 .000265 .001424 .002027  
MAX. 1.424012 1.470680 .878733 .997701  
VARIABLE \*\*\*\*\*  
INPUT  
VARIABLE  
.92171E-02  
-.57778E-48  
.35203E+00

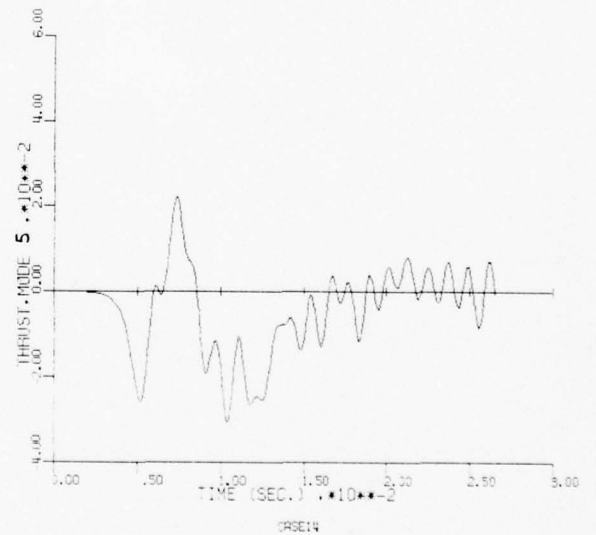
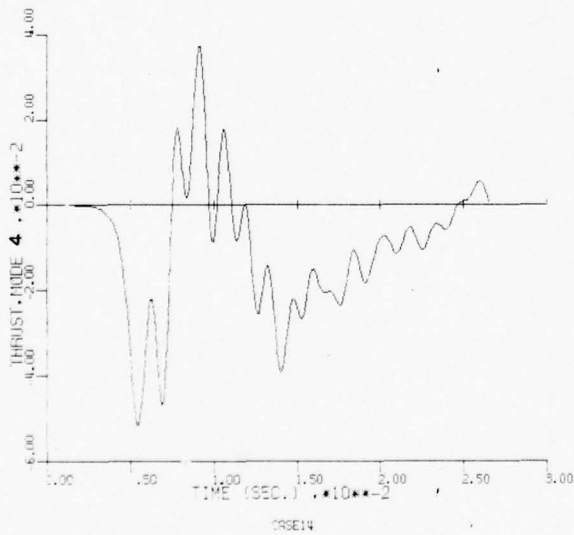
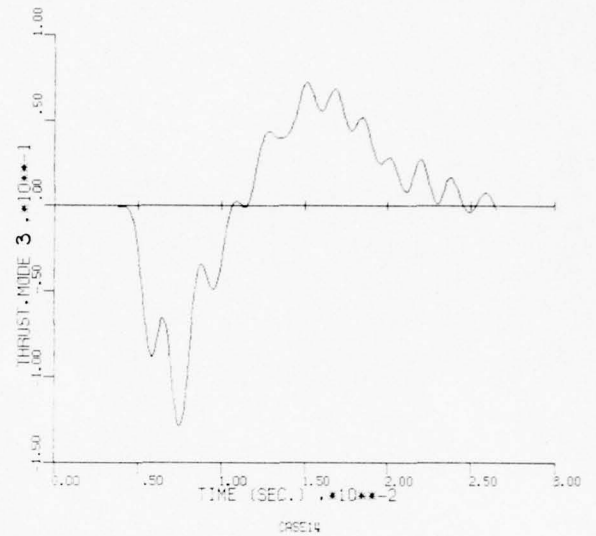
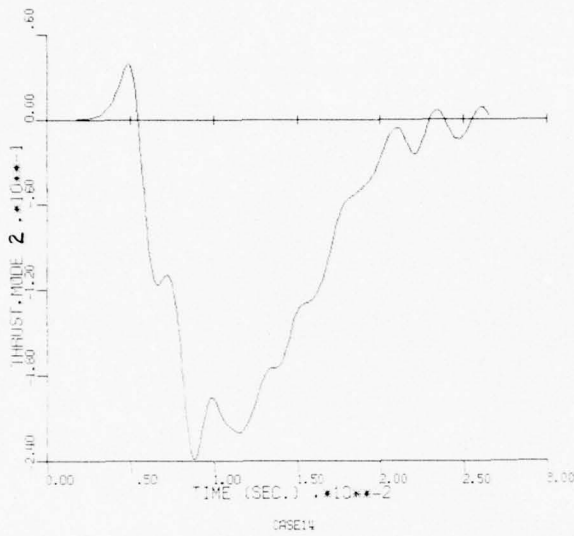
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT  
SRSS .000710 MODS 0-2 MODS 0-3  
MIN. .757952 .000680 .024625 .001468  
MAX. .000012 0.000000 .745693 .953451  
VARIABLE \*\*\*\*\*  
INPUT  
VARIABLE  
.14628E-03  
-.21826E-03  
.37014E-02

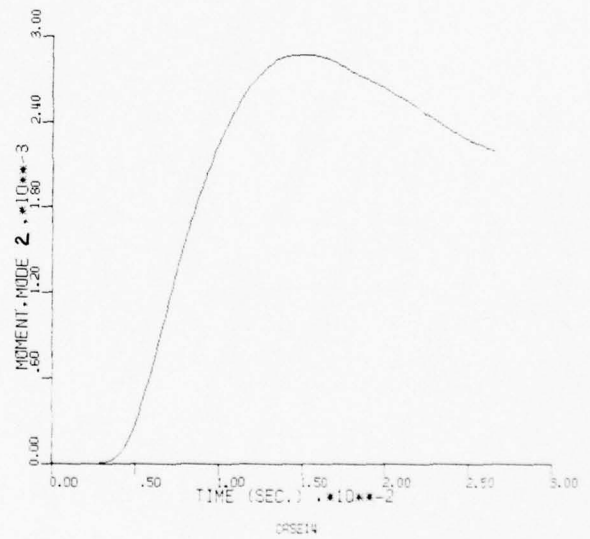
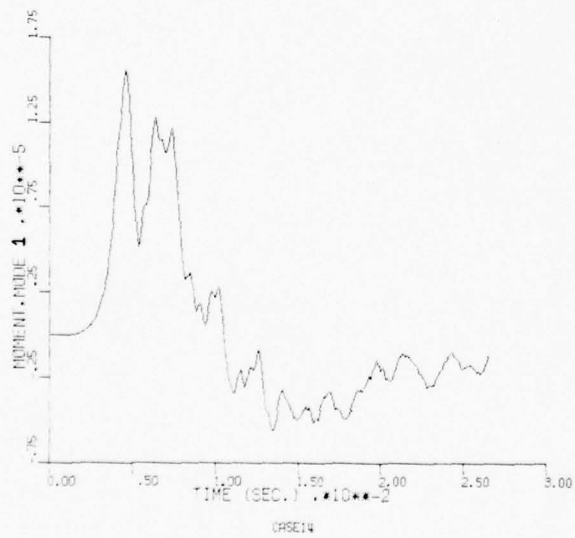
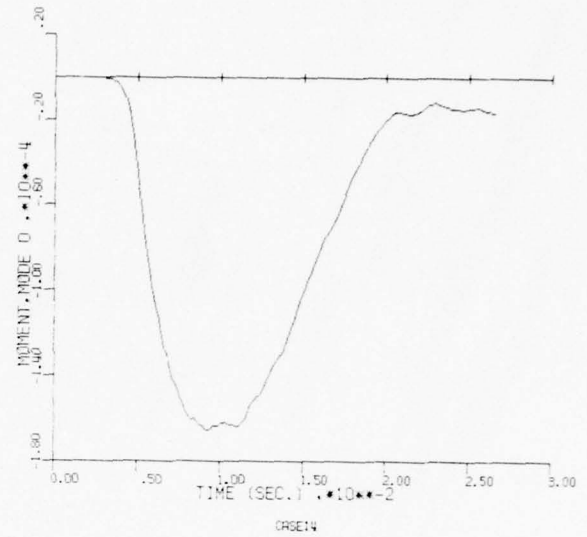
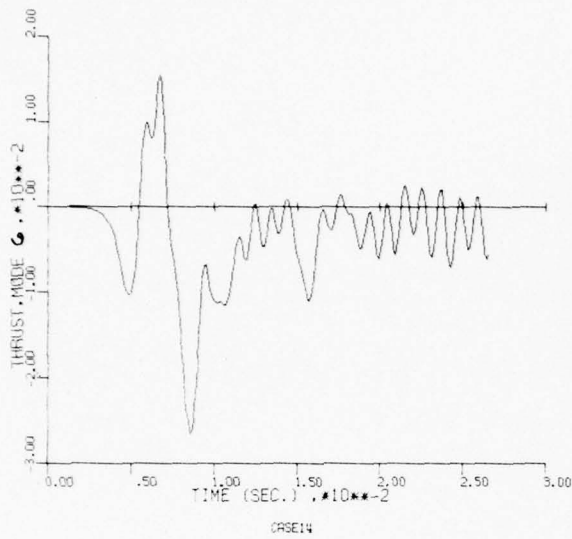
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT  
SRSS .022204 MODS 0-2 MODS 0-3  
MIN. 1.135781 .011367 .002112 .015386  
MAX. 0.000000 1.284306 .997577 .967382  
VARIABLE \*\*\*\*\*  
INPUT  
VARIABLE  
.12133E-01  
-.40888E+00  
0.

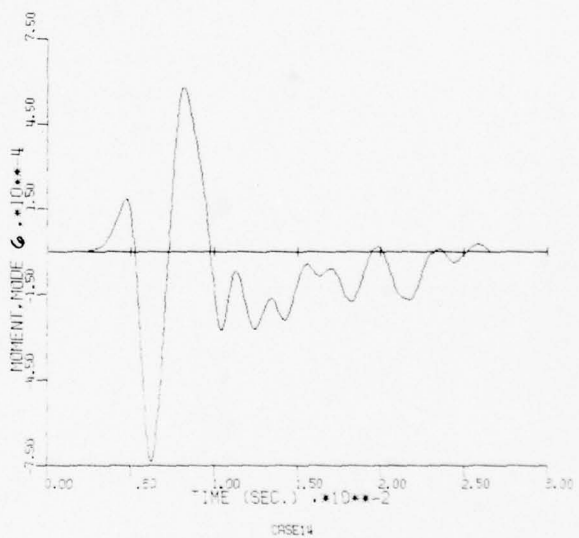
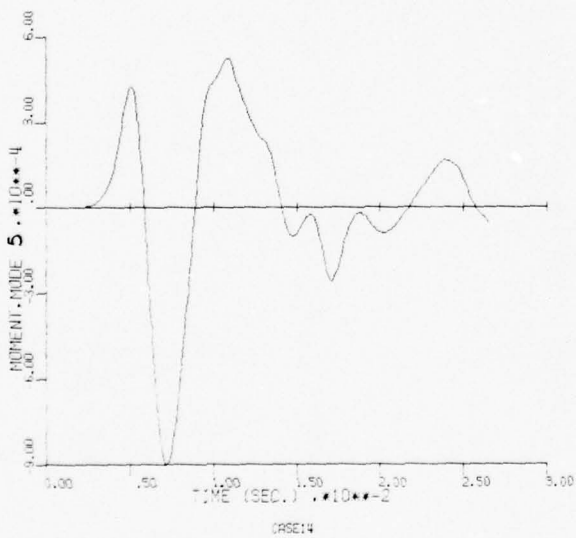
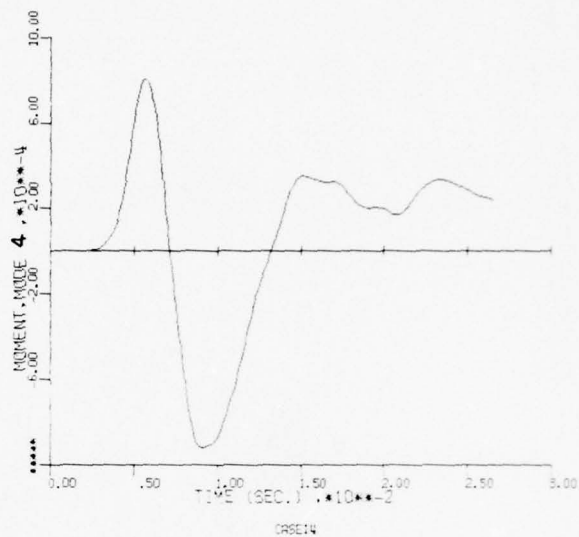
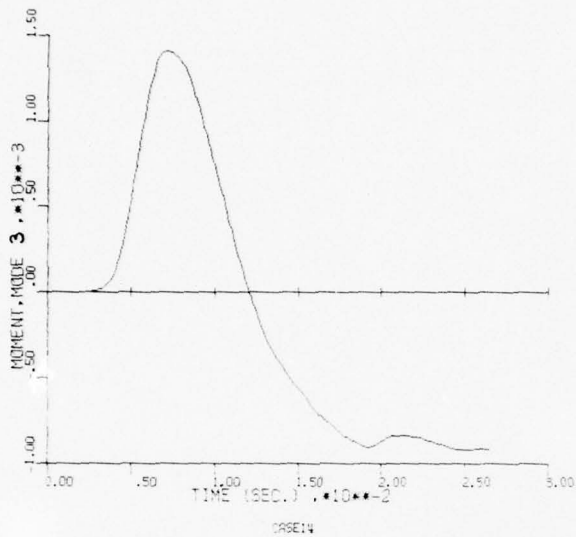




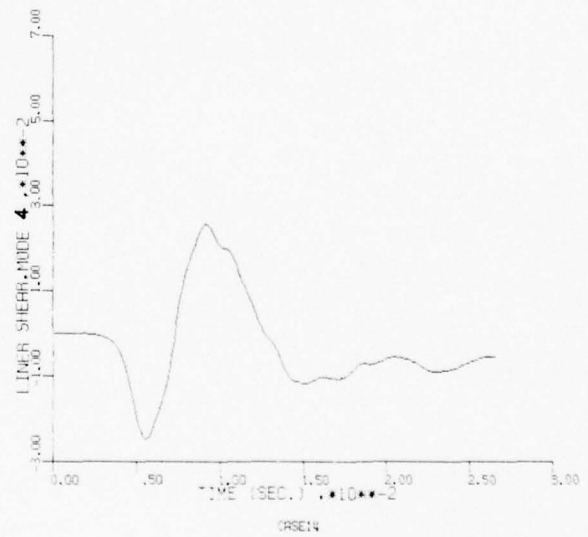
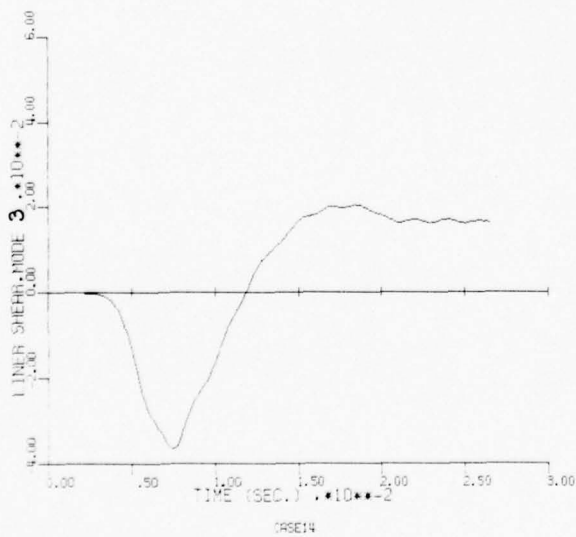
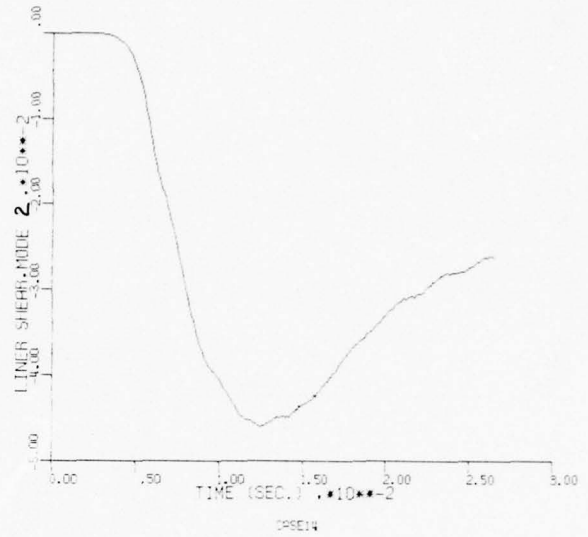
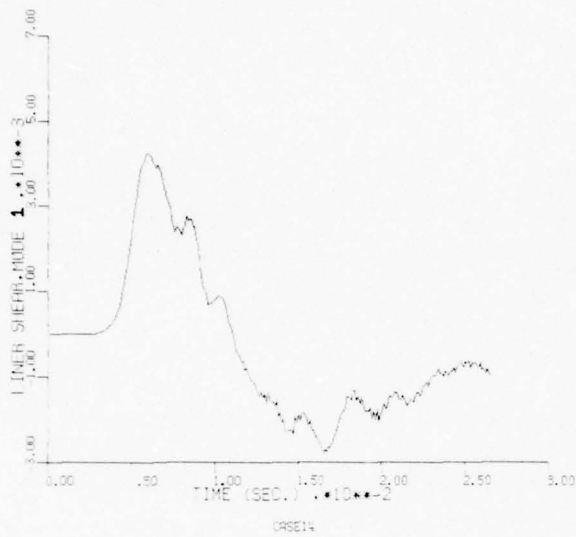


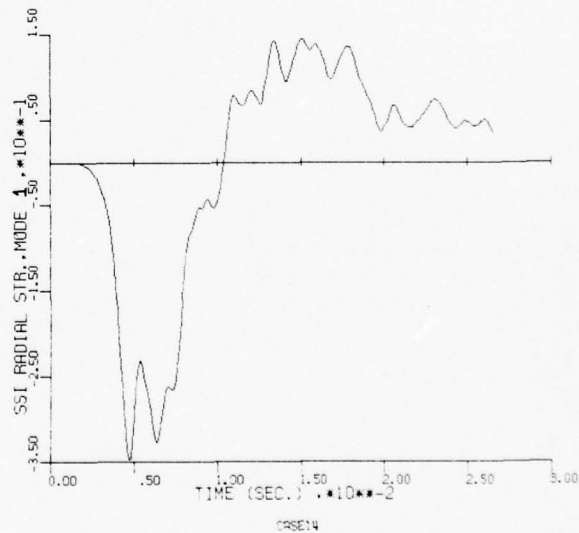
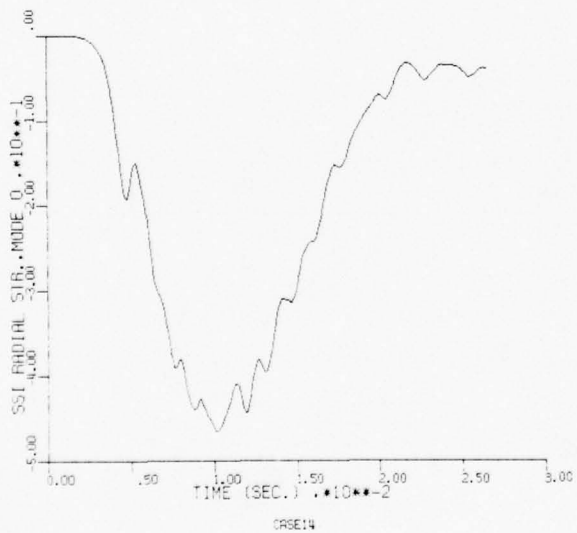
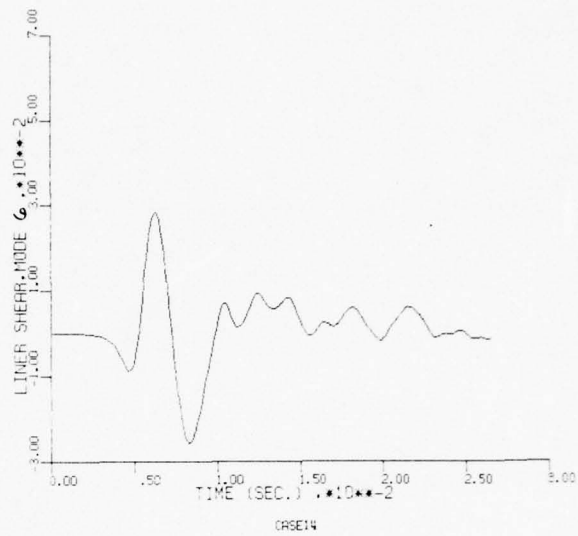
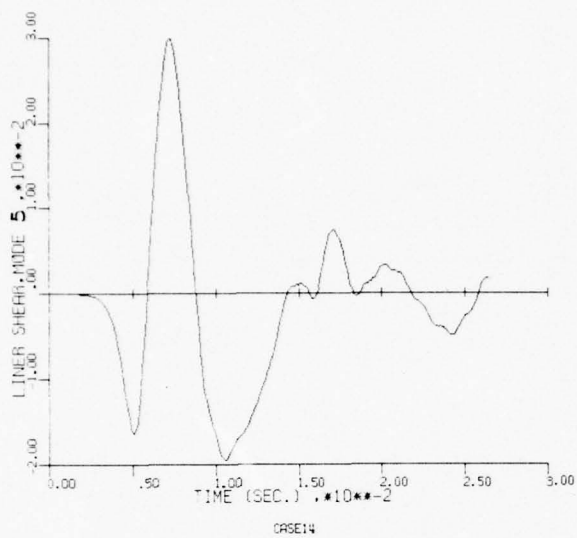


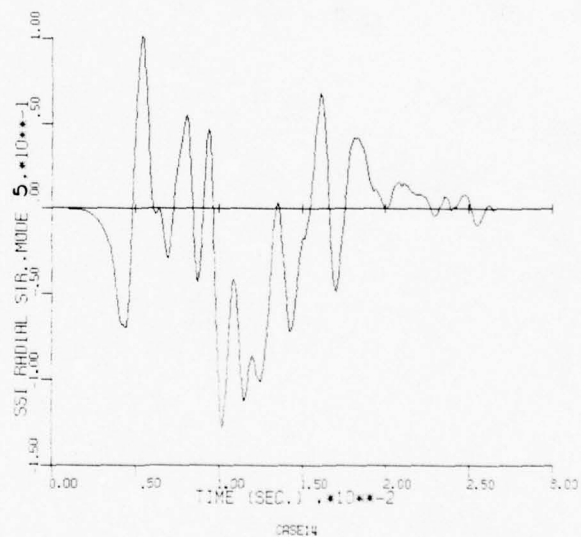
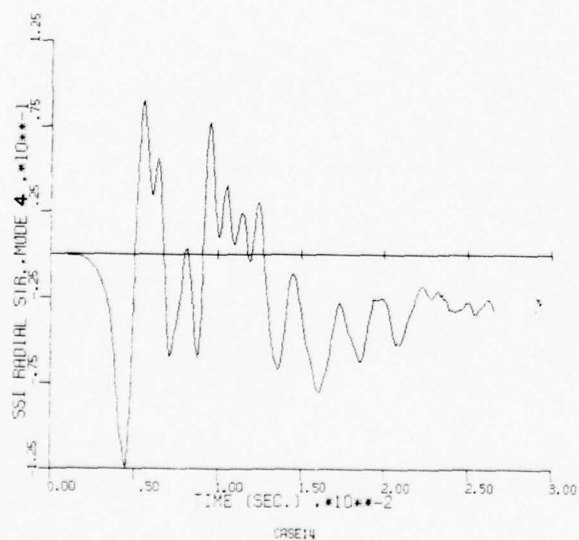
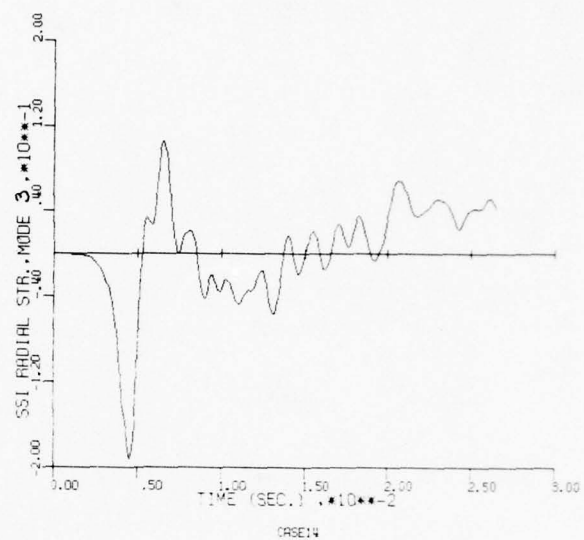
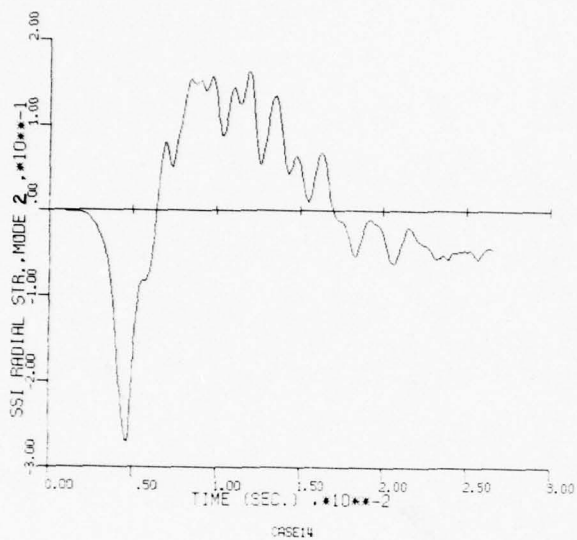


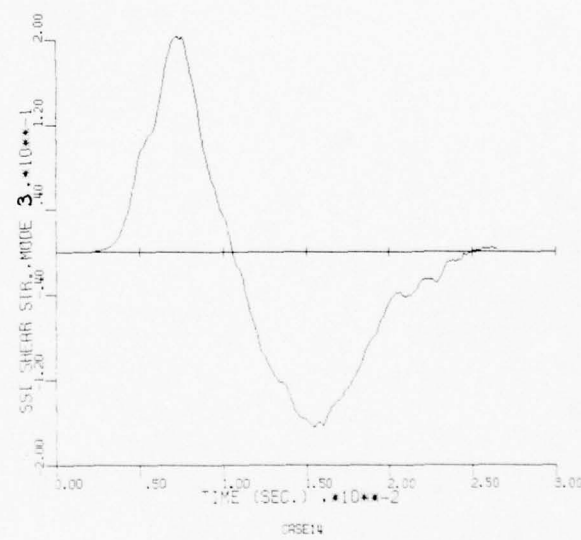
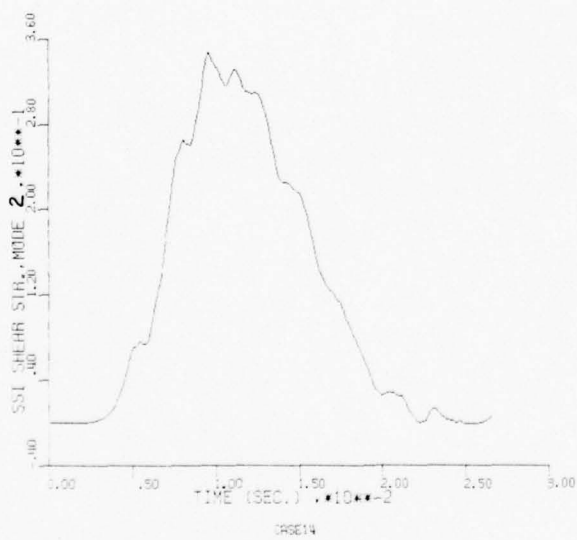
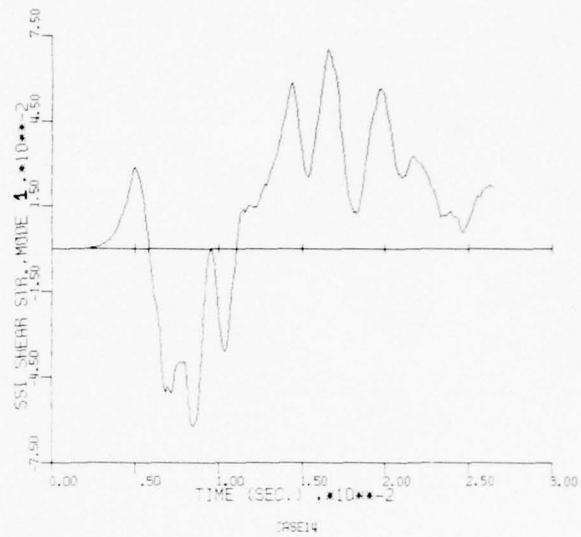
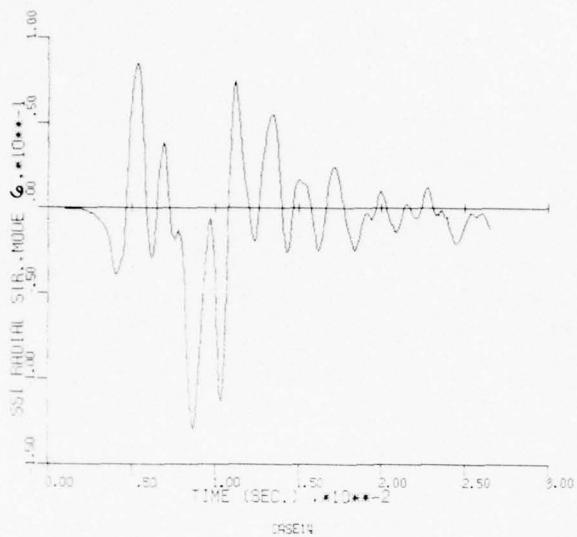


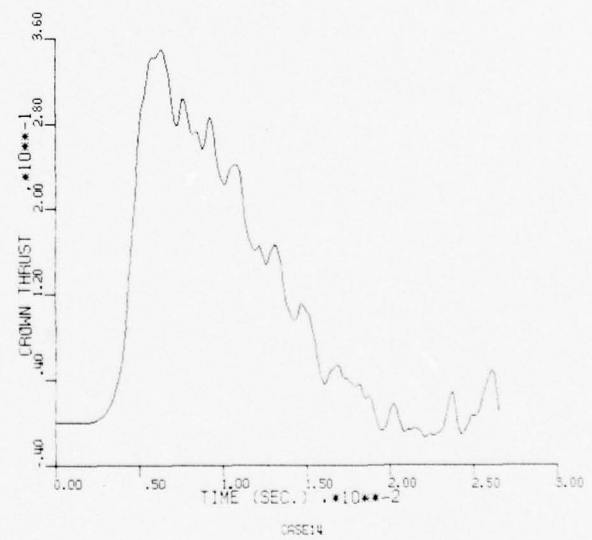
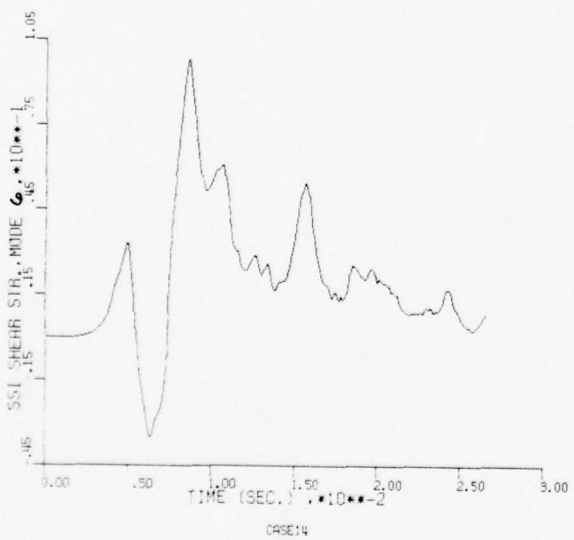
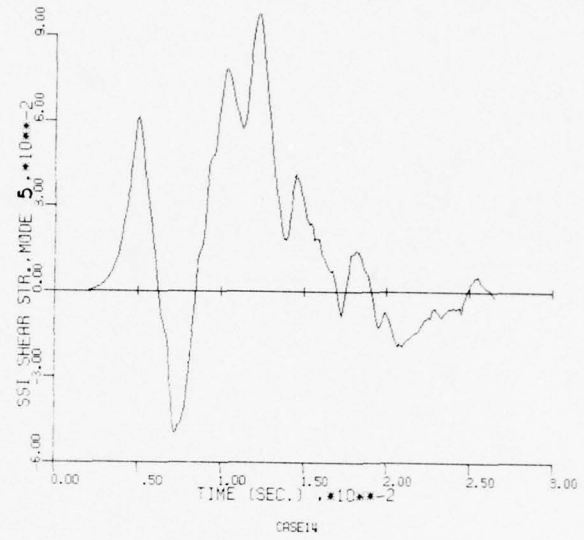
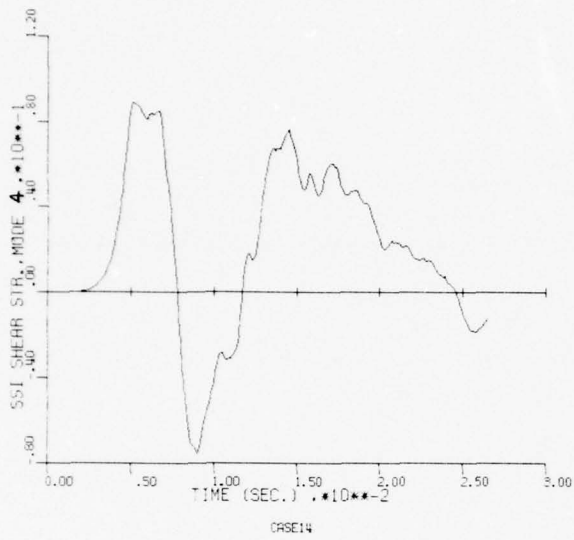




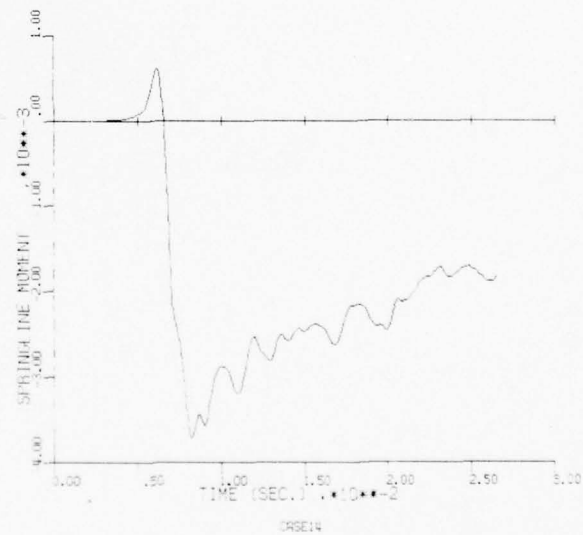
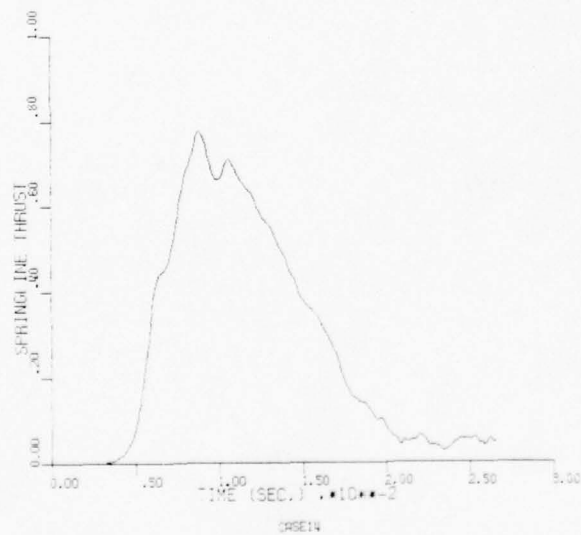
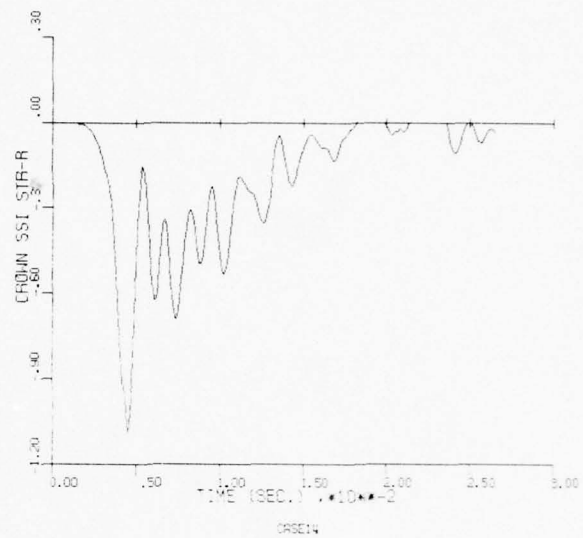
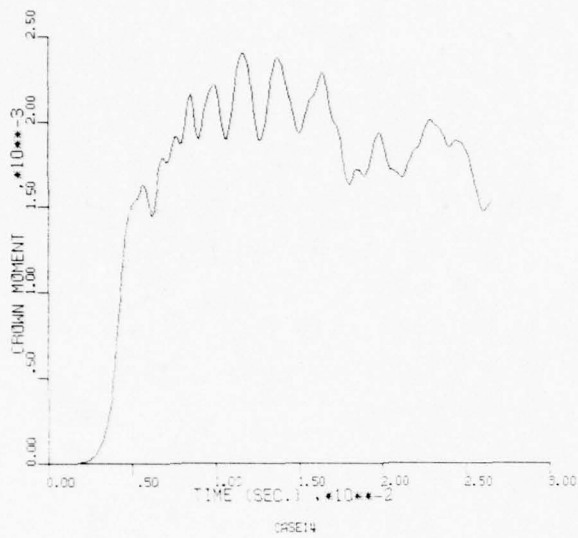


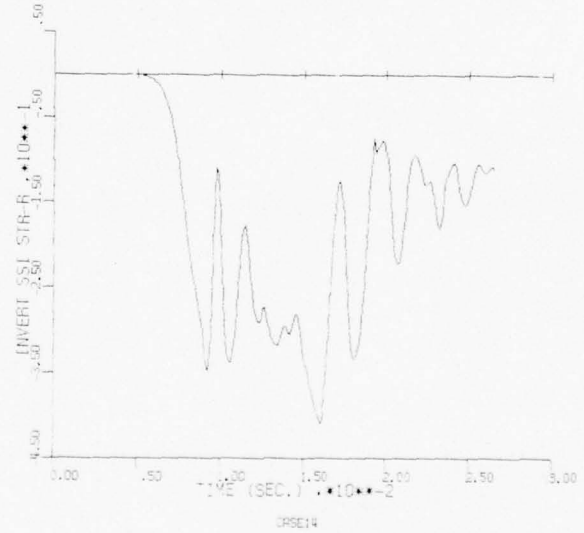
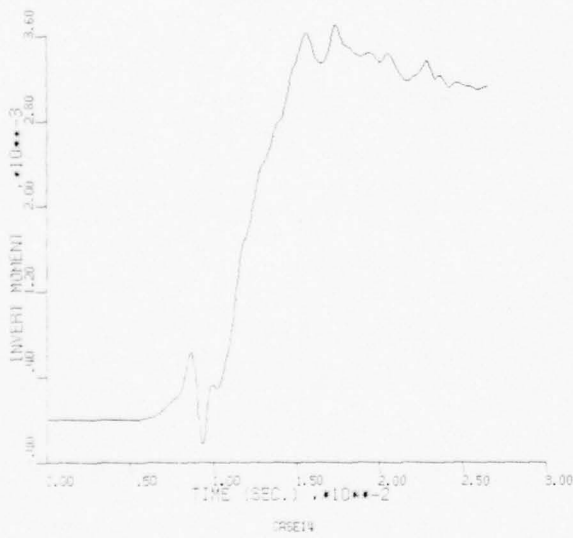
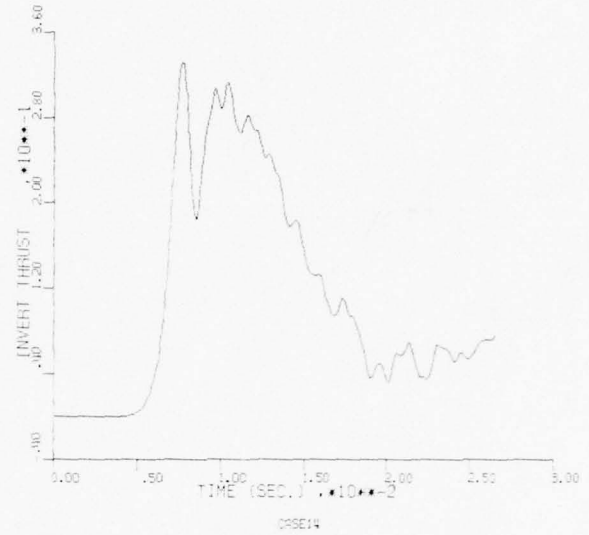
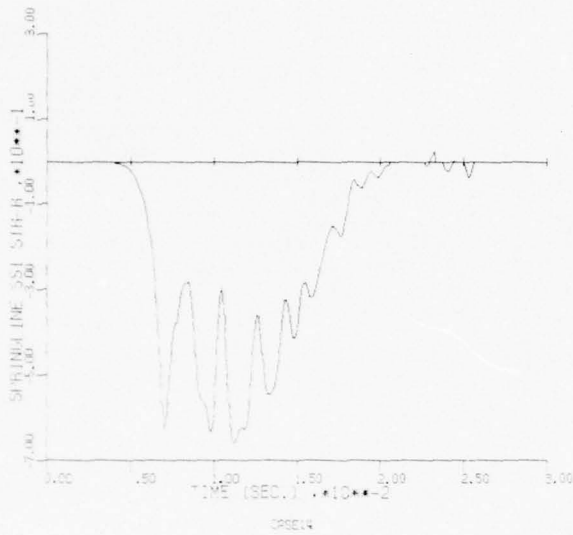












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CASE 15

MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.020912	-.892028	-.473289	-.061443
	2	0.000000	0.000000	-.032660	-.865633	-.412055	0.000000
	3	0.000000	-.000012	-.073252	-.834257	-.476689	-.170286
	4	0.000000	-.0001774	-.080364	-.775496	-.453453	-.044176
	5	0.000000	-.0008755	-.094870	-.753635	-.460911	-.010796
	6	0.000000	-.0018683	-.099263	-.777185	-.466803	-.071589
	7	0.000000	-.0029401	-.089621	-.775624	-.449855	0.000000
	8	0.000000	-.0038295	-.108122	-.857787	-.484498	-.040961
	9	0.000000	-.0044648	-.074194	-.852623	-.474317	-.126254
	10	0.000000	-.0051992	-.087477	-1.024908	-.568731	-.258980
SPR	11	0.000000	-.0052199	-.091741	-.850395	-.509238	-.330754
	12	0.000000	-.0053562	-.068081	-.967704	-.458415	-.424121
	13	0.000000	-.0056239	-.017218	-.989079	-.618246	-.511127
	14	0.000000	-.0056341	-.036611	-.945299	-.513873	-.503691
	15	-.000000	-.0057019	-.000000	-1.045718	-.522853	-.559504
	16	-.000000	-.0051396	-.000787	-.843106	-.511454	-.645830
	17	-.000000	-.0042958	-.001669	-.870174	-.546755	-.689491
	18	-.000000	-.0025071	-.005584	-.772235	-.469133	-.627156
	19	-.000000	-.0007019	-.010703	-.907310	-.545626	-.728491
	20	0.000000	-.000000	-.016630	-.728196	-.375056	-.577316
INV	21	-.000000	-.000000	-.022484	-.828108	-.374093	-.579547
	22	-.000000	-.000000	-.025623	-.754669	-.345140	-.508787
	23	-.000000	-.000000	-.024651	-.746161	-.359748	-.334771
	24	-.000000	-.000000	-.014579	-.785001	-.342260	-.130715

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.469327	.0048944	.015701	0.000000	.066822	.244878
	2	.498378	.0048055	.025090	0.000000	.016056	.488046
	3	.551371	.0043432	0.000000	0.000000	.112556	.554423
	4	.613598	.0033596	0.000000	0.000000	.035719	.565829
	5	.690550	.0022774	.000100	0.000000	.008287	.591470
	6	.781086	.0013471	.001756	0.000000	.147094	.602628
	7	.857950	.0002400	.011293	0.000000	0.000000	.595671
	8	.950003	.000000	.021325	.019613	.141579	.634945
	9	1.001642	.000000	.042058	0.000000	0.000000	.635850
	10	1.057417	.0000027	.057368	0.000000	.026407	.652569
SPR	11	1.127615	.0000342	.076710	0.000000	.151691	.613607
	12	1.200844	.0001088	.074255	.010930	.173221	.394367
	13	1.186614	.0002758	.094386	0.000000	.045926	.341959
	14	1.189429	.0005298	.102018	0.000000	.096640	.254249
	15	1.126543	.0008206	.104969	0.000000	.164095	.278767
	16	1.062441	.0013087	.110648	0.000000	.003399	.068323
	17	.947496	.0016513	.097009	0.000000	.164142	.112500
	18	.856189	.0019660	.139504	0.000000	.139310	.104848
	19	.731249	.0023584	.123463	0.000000	.000000	.000000
	20	.662663	.0025924	.132631	0.000000	.028117	.002234
INV	21	.566757	.0038747	.098619	.000000	0.000000	.000000
	22	.509935	.0051842	.087592	0.000000	0.000000	.000000
	23	.453394	.0060039	.058564	0.000000	0.000000	.000000
	24	.423284	.0064279	.025382	0.000000	.014430	.000000

MIN-MAX MODAL AMPLITUDES -- CASE 15

LINER THRUST PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.14560E+00	-.44693E+00	-.13376E+00	-.39960E-01	-.24045E-01	-.25740E-01
MAX	.73154E+00	.25920E+00	.72723E-01	.30317E-01	.11341E-01	.60986E-02
LINER MOMENT PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.25536E-03	-.65918E-05	-.15440E-02	-.12694E-02	-.88238E-03	-.48450E-03
MAX	.41902E-07	.13502E-04	.21723E-02	.94901E-03	.35519E-03	.14778E-03
LINER SHEAR PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.43816E-02	-.96083E-01	-.51424E-01	-.27451E-01	-.12135E-01	-.65220E-02
MAX 0.	.59954E-02	0.	.33880E-01	.31167E-01	.27363E-01	.17691E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.72721E+00	-.34678E+00	-.11396E+00	-.99482E-01	-.81971E-01	-.48560E-01
MAX 0.	.17276E+00	.19493E+00	.83747E-01	.76272E-01	.67190E-01	.53499E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.12348E+00	0.	-.18420E+00	-.78507E-01	-.36957E-01	-.15559E-01
MAX 0.	.10320E+00	.68707E+00	.27544E+00	.10622E+00	.81134E-01	.12552E+00

# CASE 15

## CROWN THRUST

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.017119	.000345	.003073	.001917	.000919	.000787	.000347	.10583E-01	
MIN.	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.	
MAX.	1.558703	1.079996	1.257100	1.076170	.997664	.997232	1.008767	.40933E+00	

## CROWN MOMENT

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.036192	.036247	.010140	.000078	.002076	.004917	.002637	.14894E-03	
MIN.	-.000255	-.000261	0.000000	0.000000	0.000000	0.000000	0.000000	0.	
MAX.	.000009	.000231	1.111482	.960872	1.053780	1.091003	1.038306	.48944E-02	

## CROWN SSI STR-R

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.000500	.011449	.002346	.005996	.003825	.002434	.002722	.18995E-01	
MIN.	.811405	.888467	.858869	.966404	1.019586	1.038070	1.030307	-.89293E+00	
MAX.	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.	

## SPRINGLINE THRUST

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.000729	.000345	.001259	.000927	.000023	.000171	.000318	.31599E-01	
MIN.	0.000000	0.000000	-.000000	-.000002	-.000016	-.000052	-.000000	0.	
MAX.	.609189	.605082	.974594	.972137	.974710	.971601	.984032	.12008E+01	



SPRINGLINE MOMENT

```

*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE  MODES 0-4  MODES 0-5  MODES 0-6  INPUT
*****
SRSS      .039666      .039666      .000836      .000809      .001602      .003480      .18091E-03
MIN.      .047676      1.104446      1.074833      1.013597      .996742      .993448      -.53562E-02
MAX.      .090385      .000575      0.000000      .800427      1.637114      1.111714      .10877E-03

```

SPRINGLINE SSI STR-R

```

*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE  MODES 0-4  MODES 0-5  MODES 0-6  INPUT
*****
SRSS      .016299      .015705      .008739      .010544      .010936      .011176      .22843E-01
MIN.      .751475      .749215      .923430      .974977      .978940      .978944      -.96770E+00
MAX.      0.000000      0.000000      2.128872      0.000000      0.000000      .003706      .10930E-01

```

INVERT THRUST

```

*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE  MODES 0-4  MODES 0-5  MODES 0-6  INPUT
*****
SRSS      .004787      .009478      .003173      .000857      .000536      .000895      .12958E-01
MIN.      0.000000      -.016928      -.000001      -.002617      -.000000      -.000444      -.57595E-48
MAX.      1.728252      1.931641      1.092825      1.013151      1.040997      1.022243      .42328E+00

```

INVERT MOMENT

```

*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE  MODES 0-4  MODES 0-5  MODES 0-6  INPUT
*****
SRSS      .045694      .045659      .002694      .004105      .002099      .000488      .21086E-03
MIN.      -.000255      -.000253      -.000707      -.000434      -.000070      -.000052      -.10519E-09
MAX.      .000007      0.000000      .847579      1.075237      1.057905      1.010256      .64279E-02

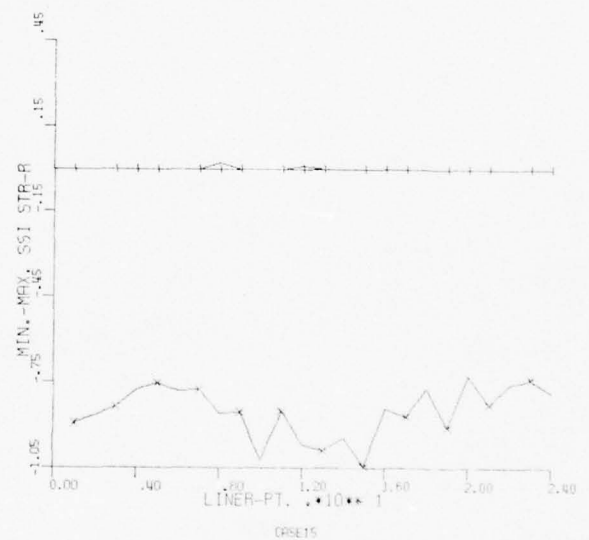
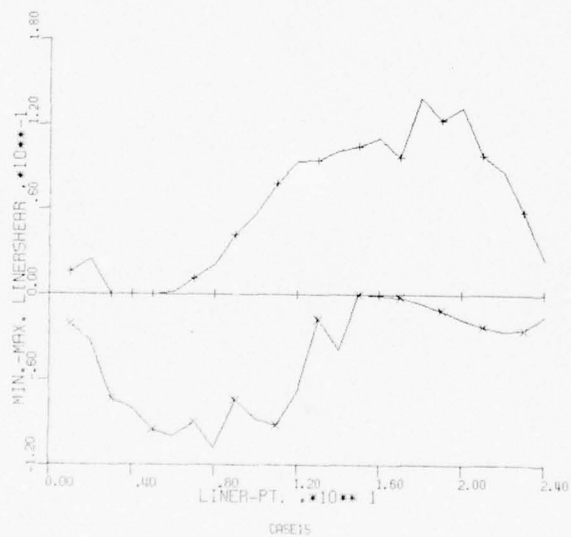
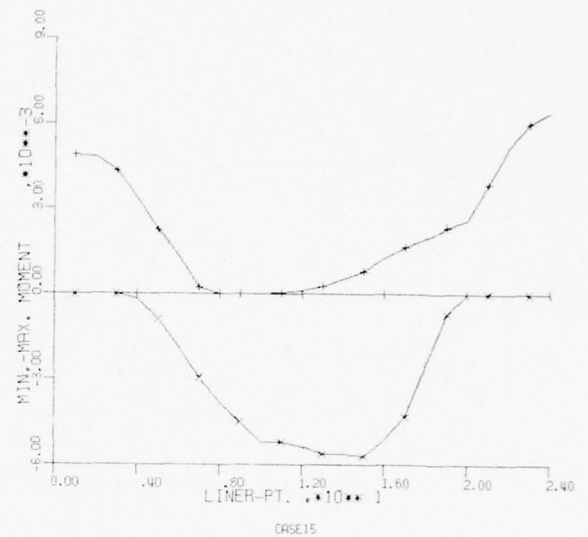
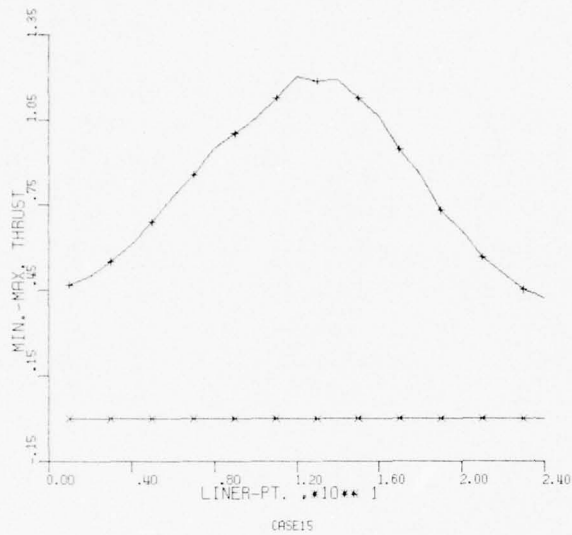
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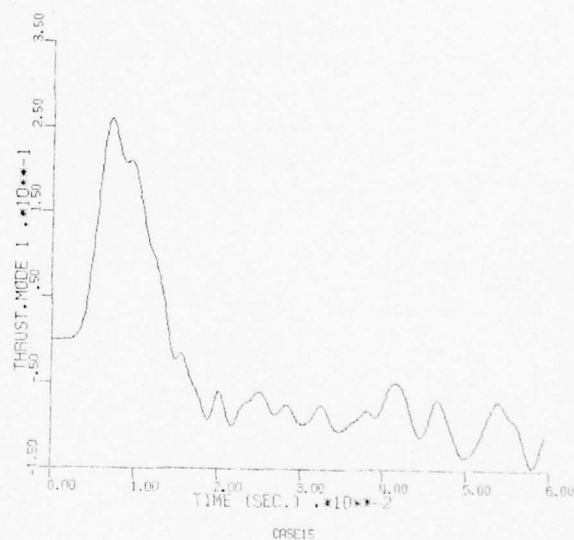
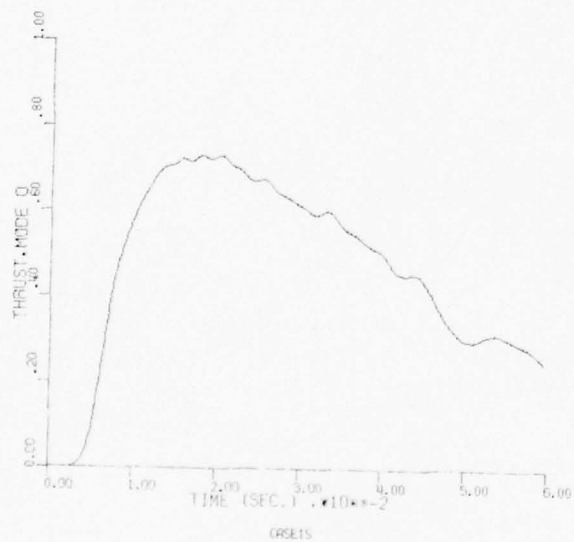
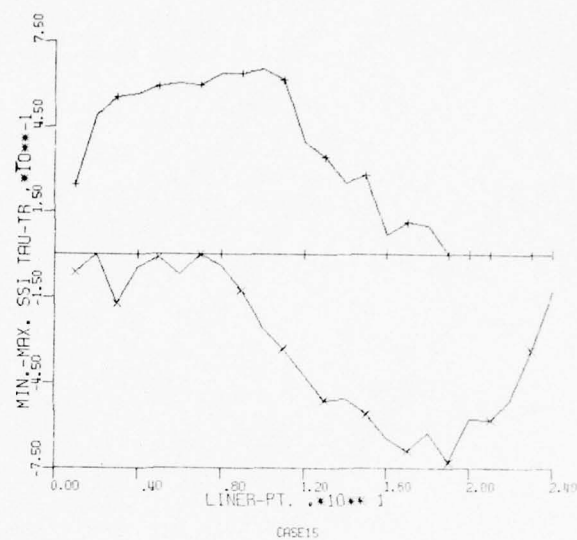
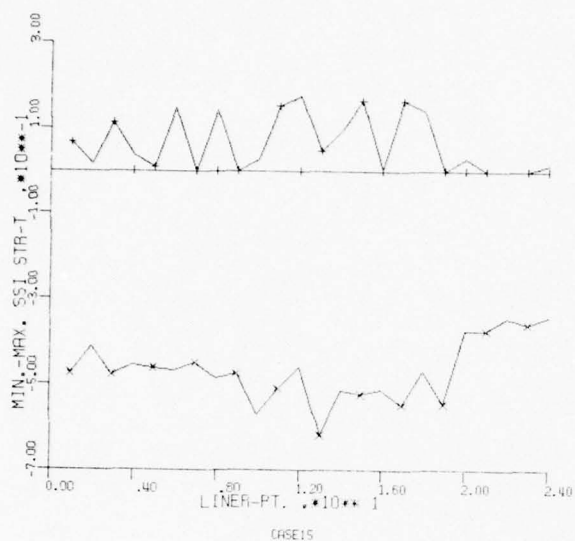
INVERT SSI STR-R

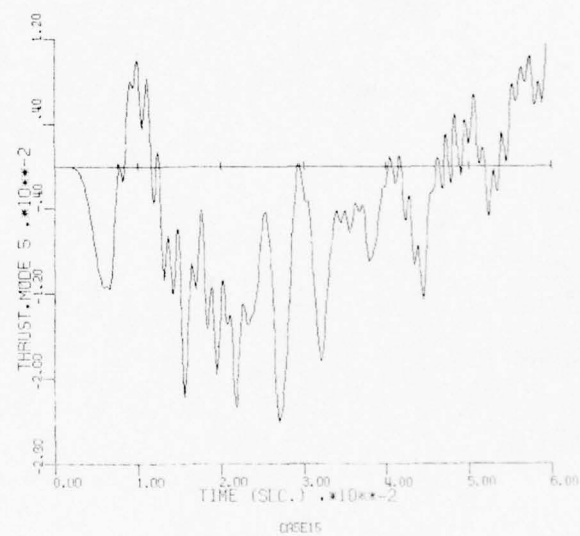
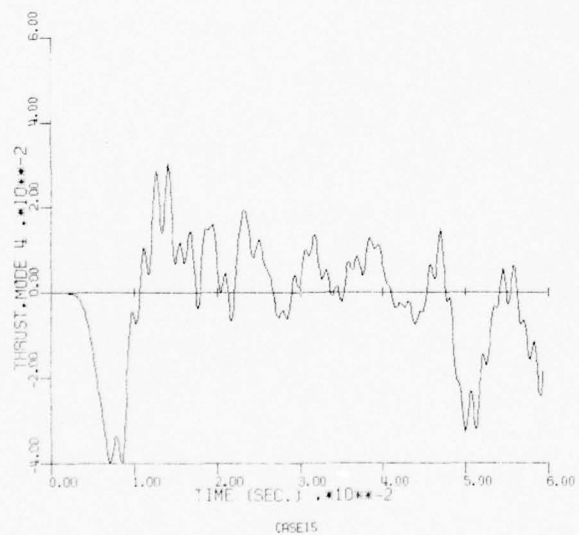
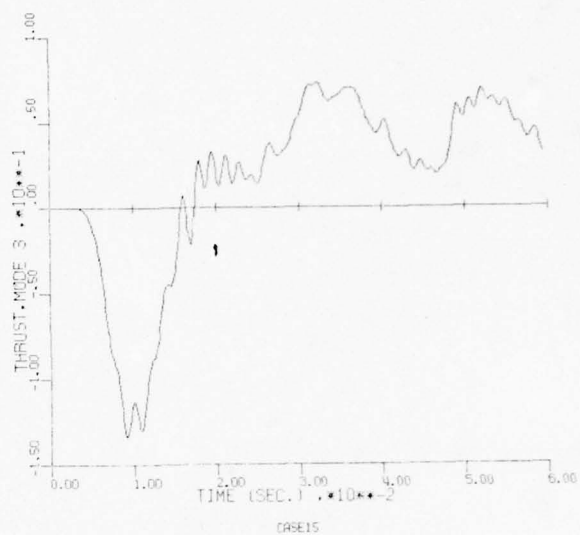
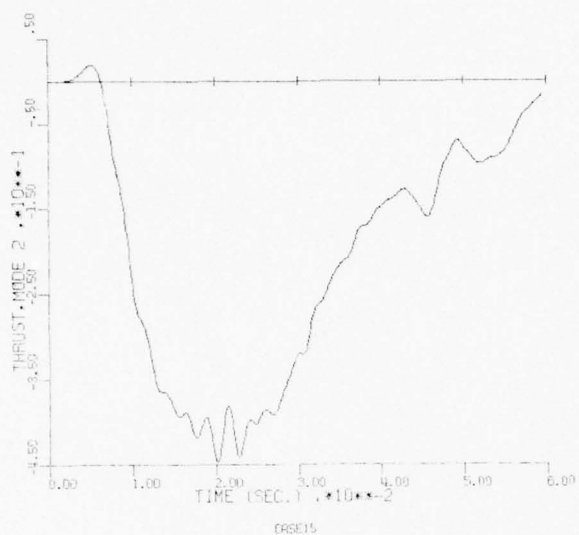
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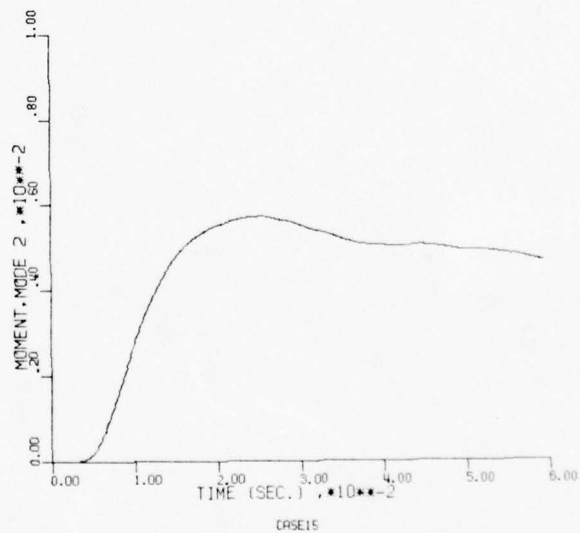
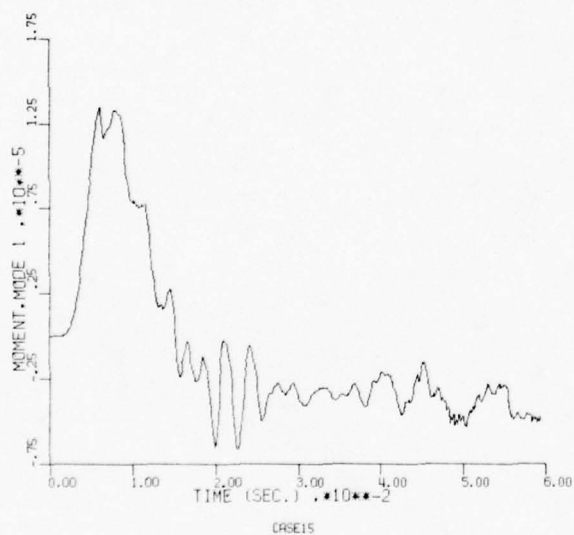
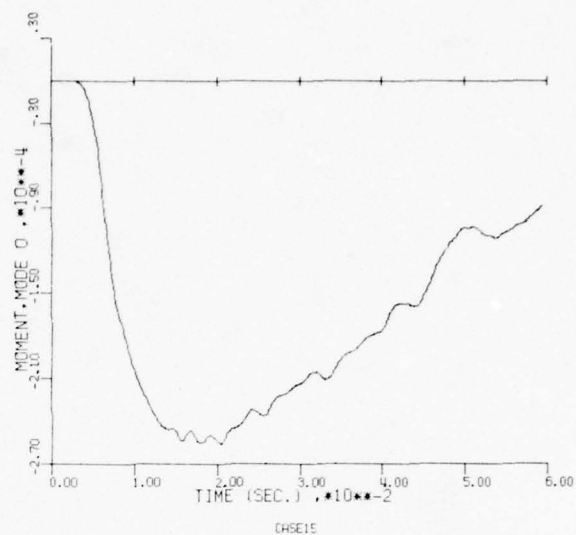
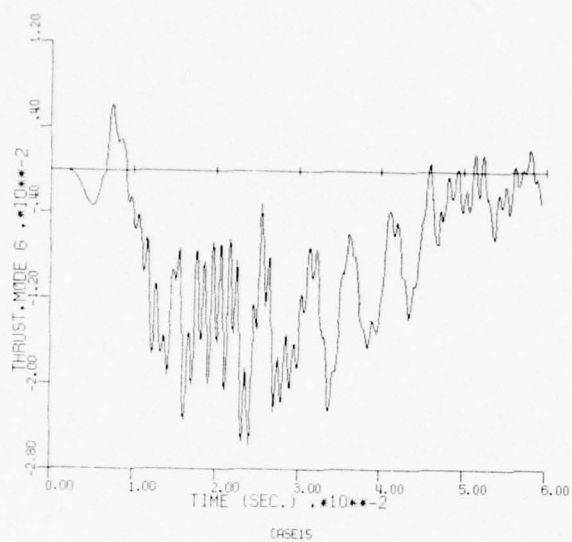
*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE  MODES 0-4  MODES 0-5  MODES 0-6  INPUT
*****
SRSS      .019192      .009563      .001513      .001714      .002404      .002149      .21482E-01
MIN.      .926375      1.068408      .963661      .903104      .952347      .943295      -.78500E+00
MAX.      0.000000      .120718      0.000000      .639494      .008971      .007197      0.

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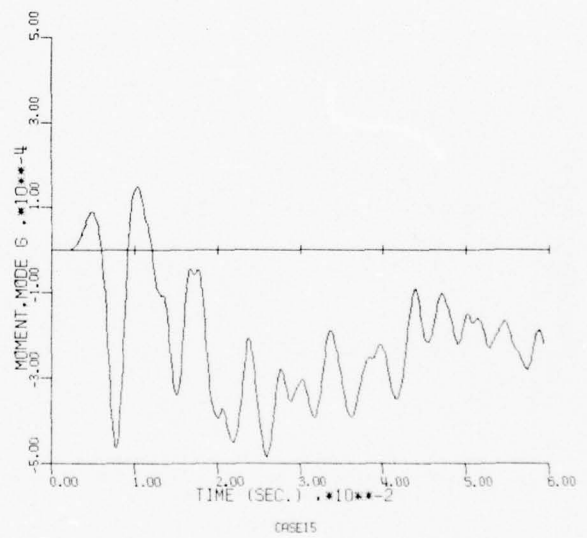
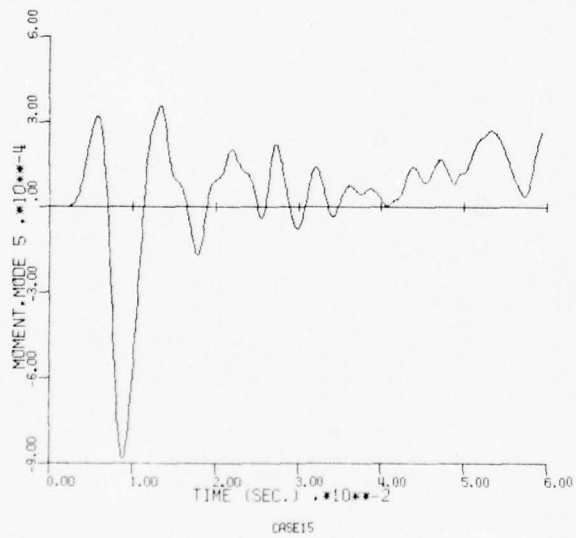
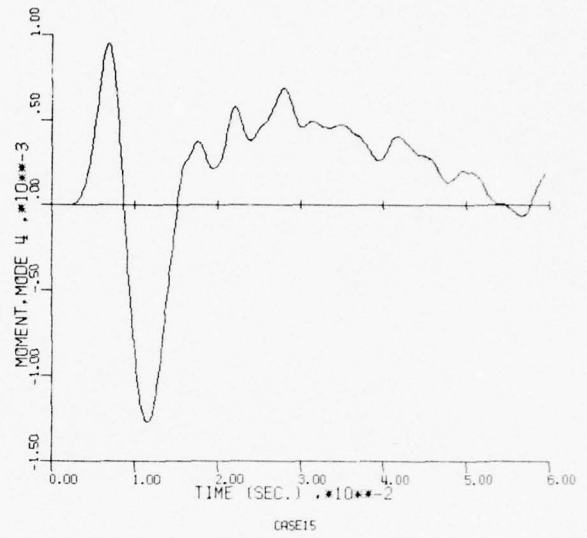
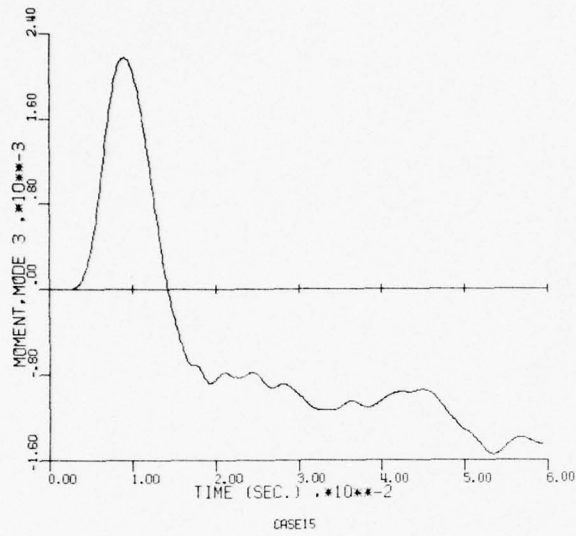


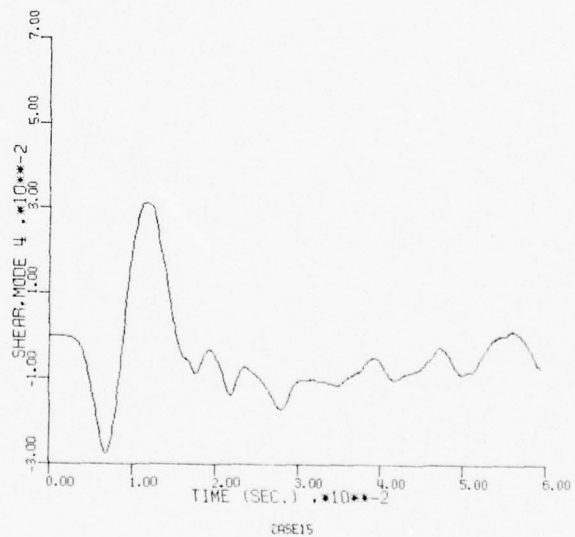
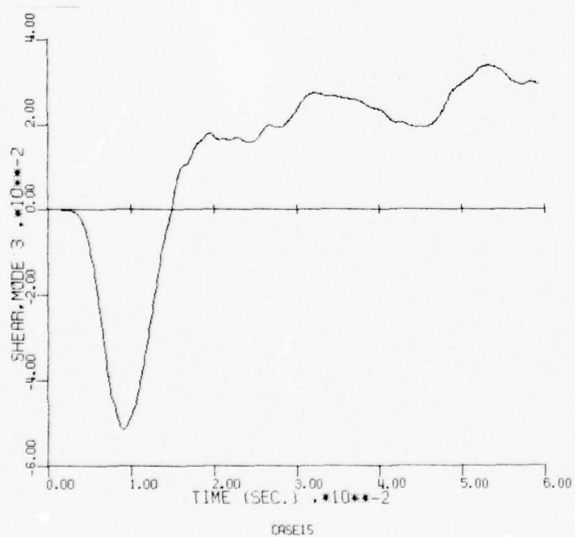
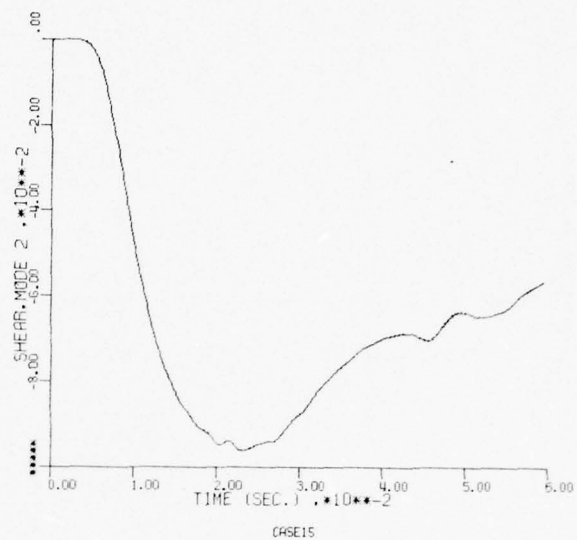
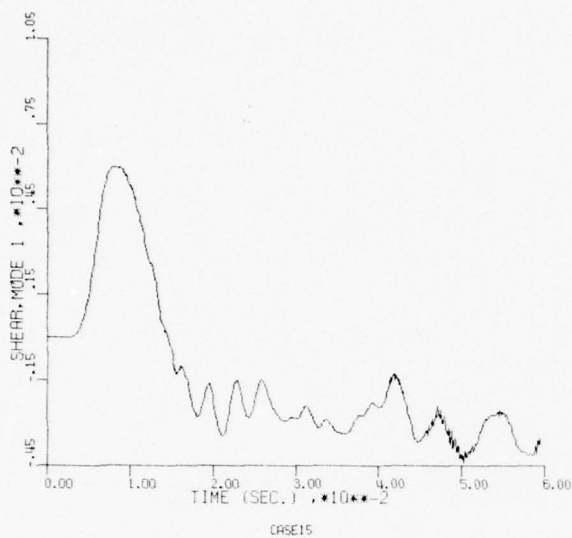


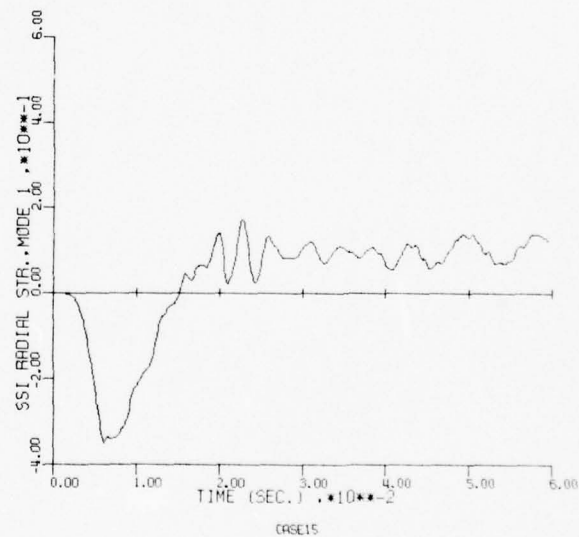
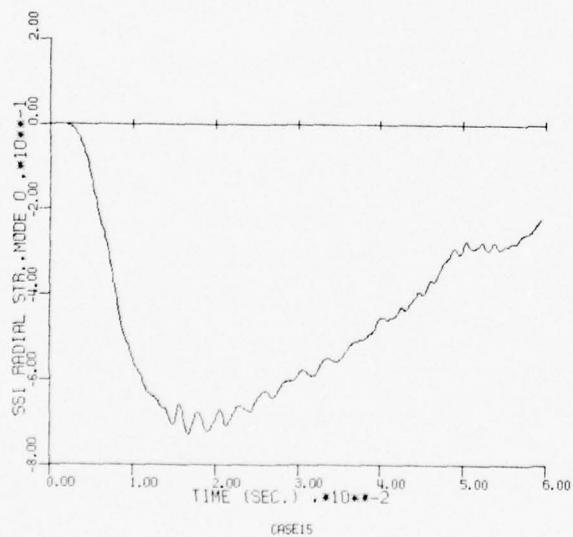
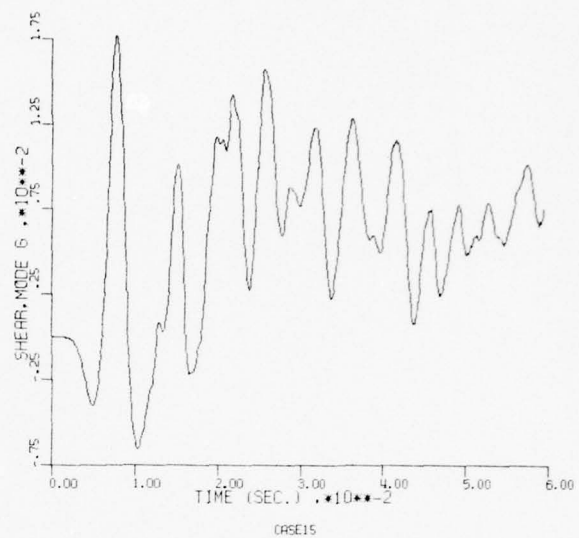
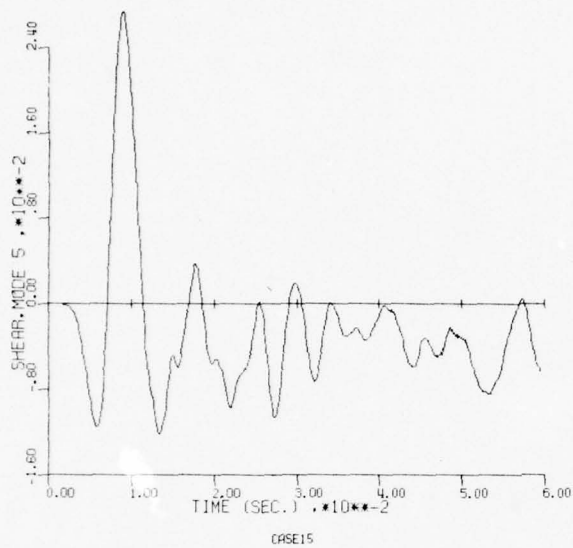


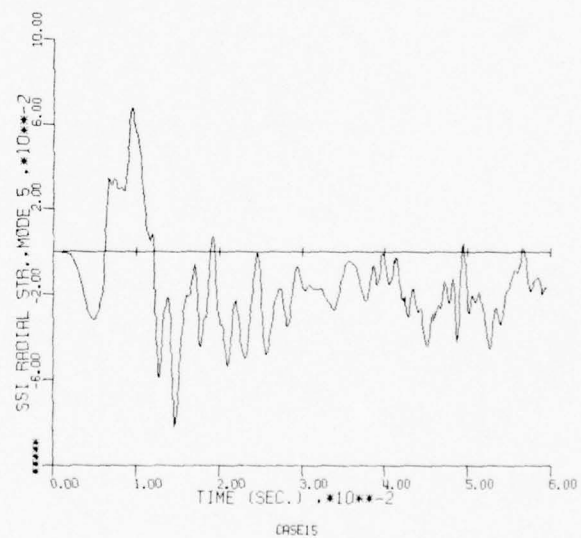
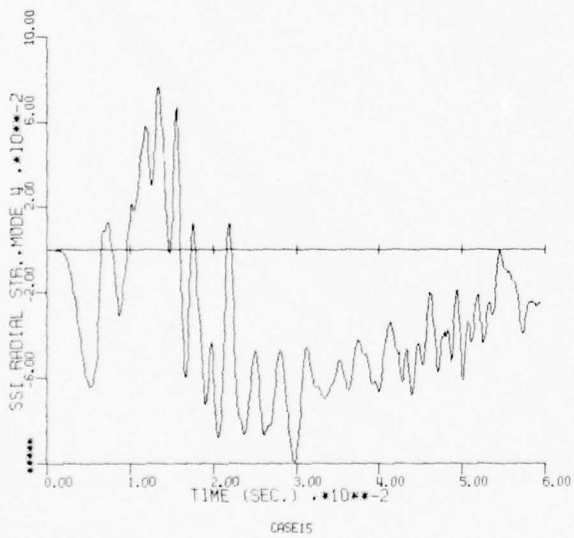
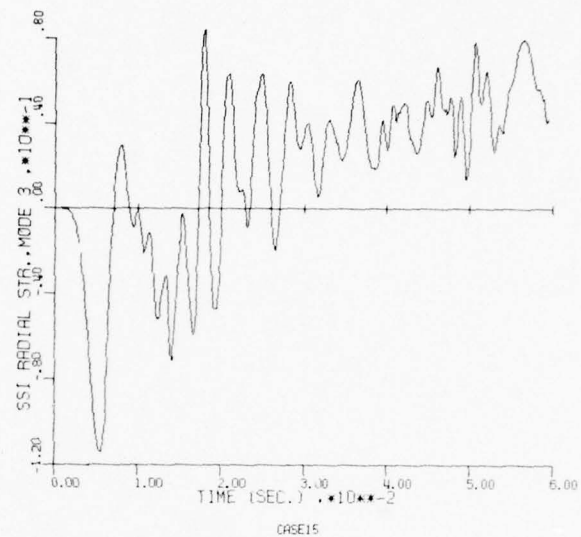
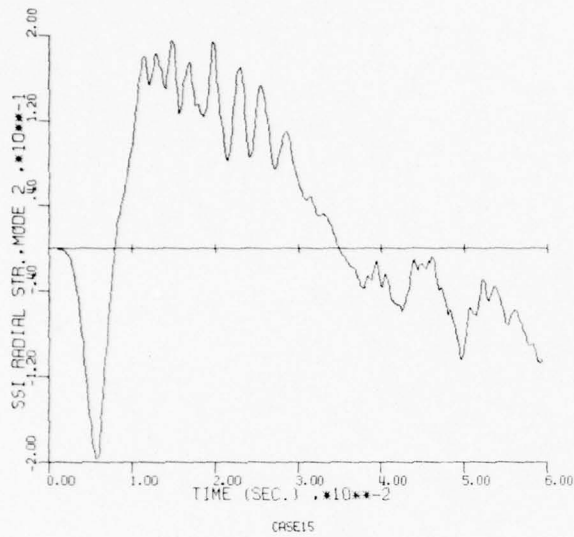


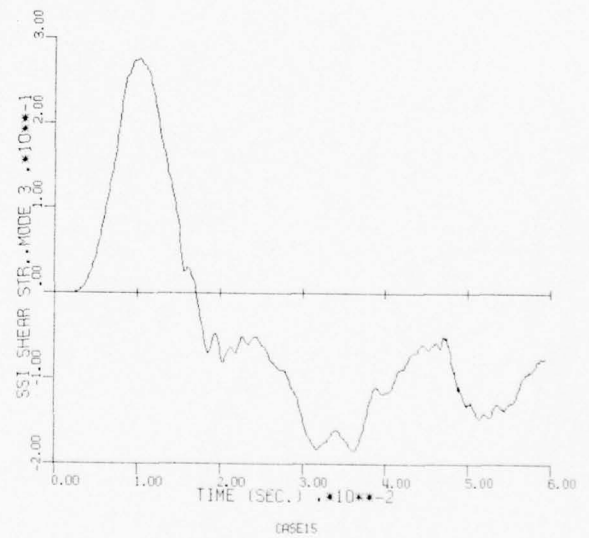
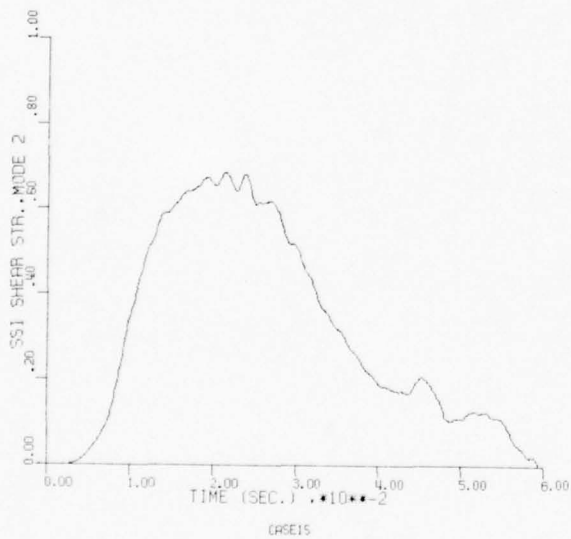
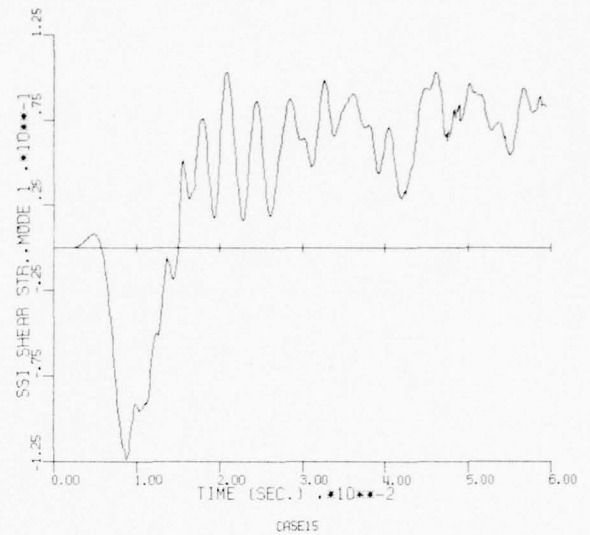
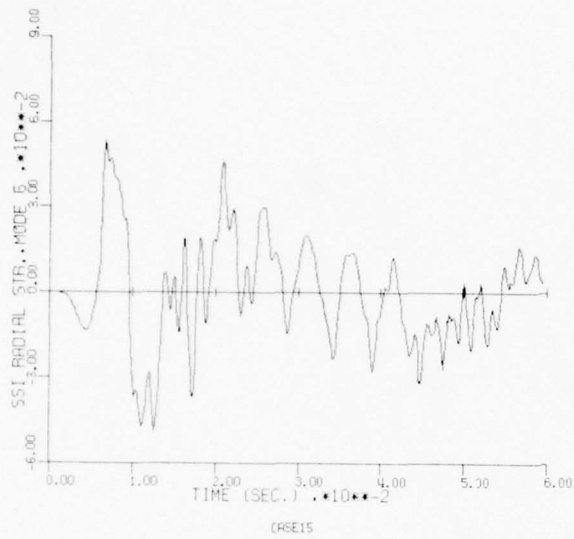




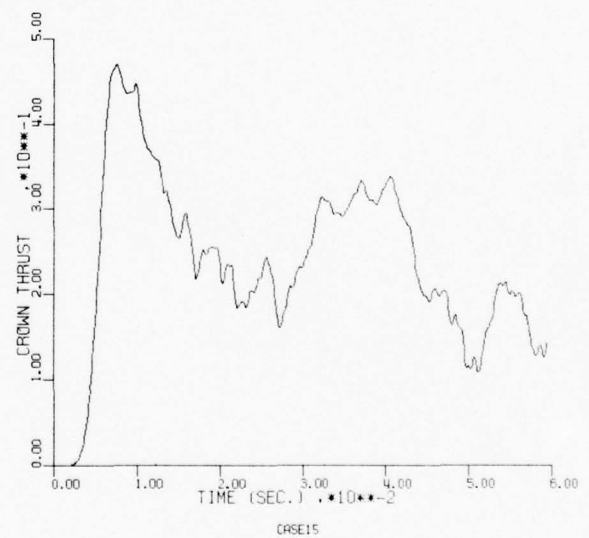
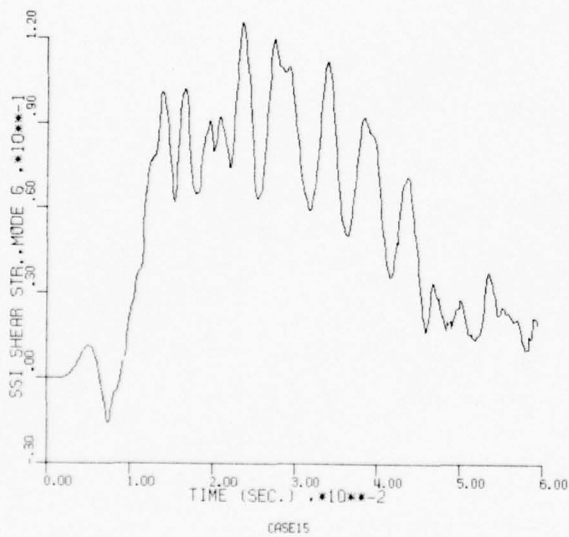
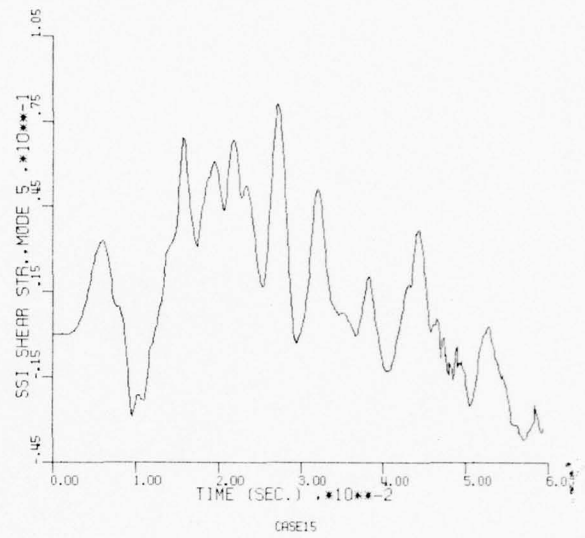
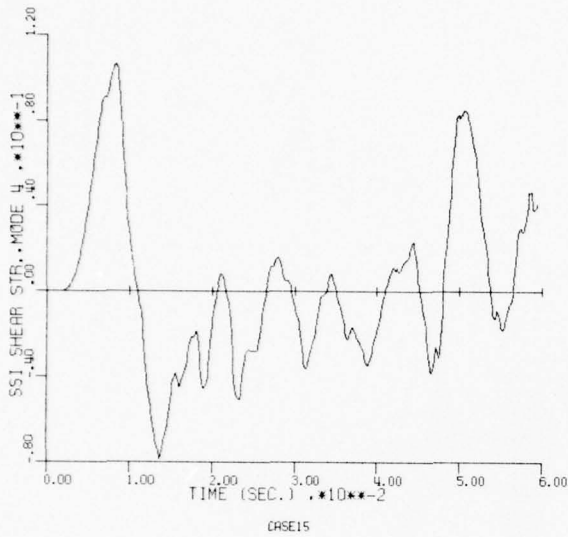


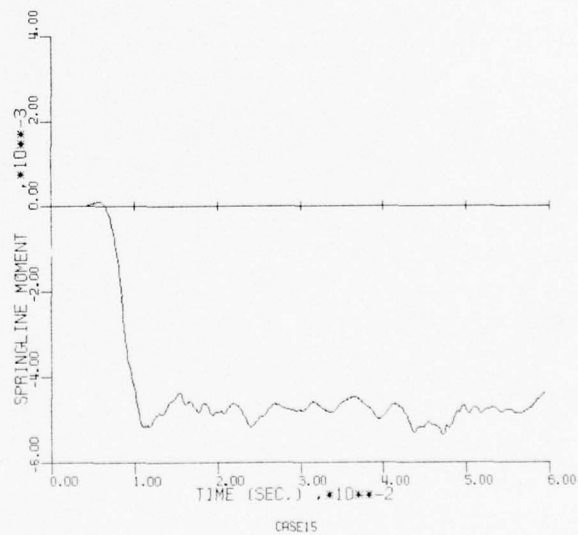
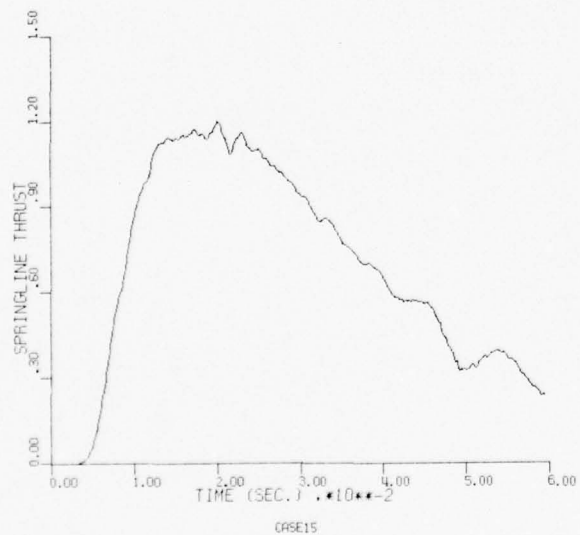
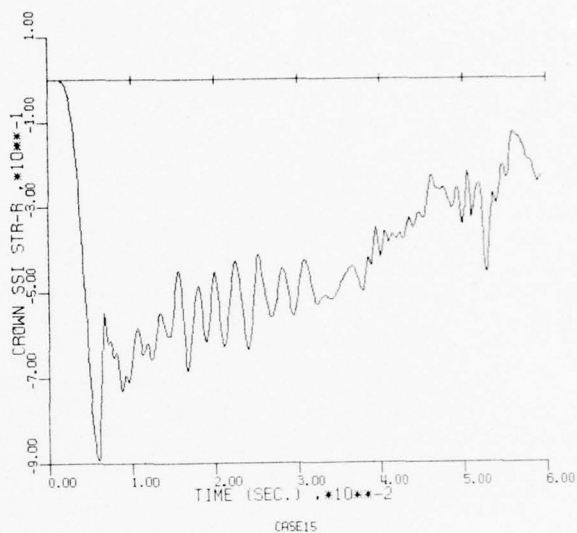
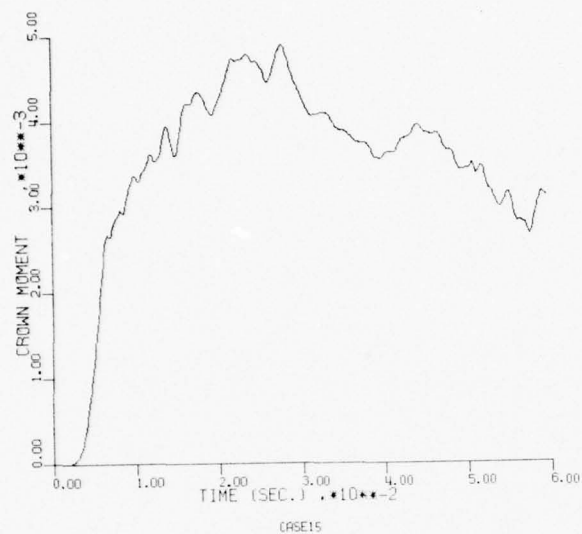


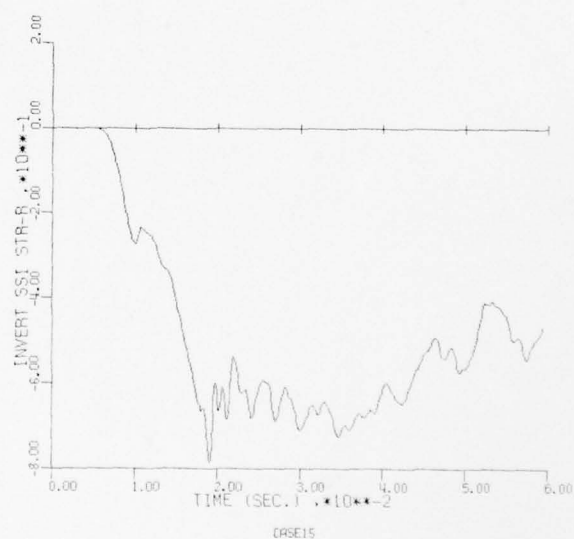
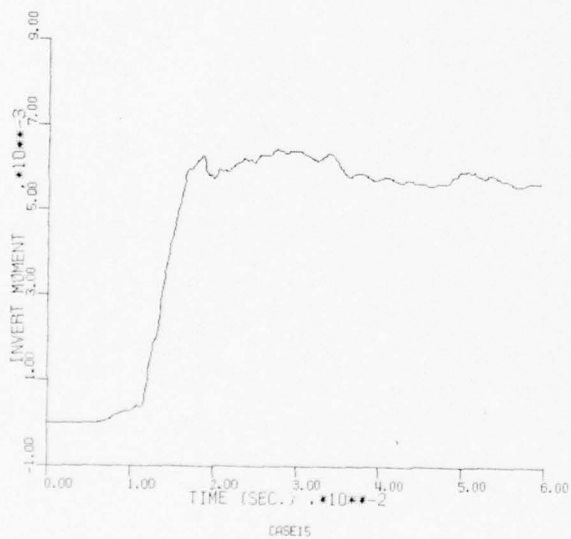
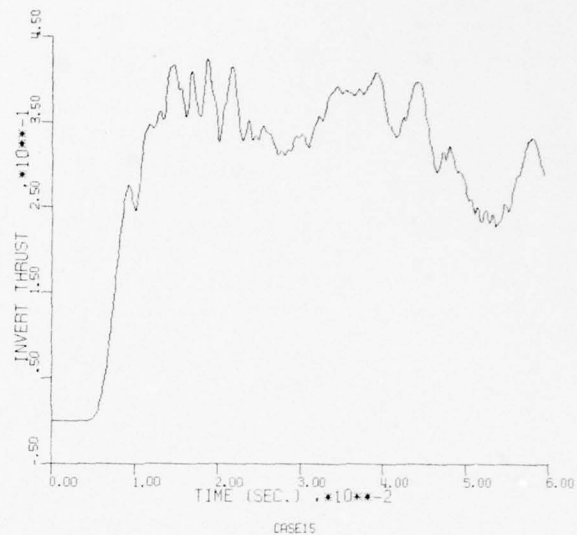
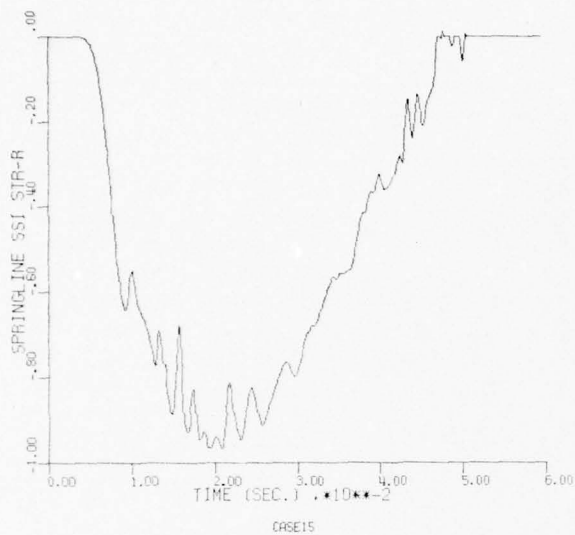












CASE 16

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MIN. VALU'S

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.023522	-1.129448	-.672224	-.009705
	2	0.000000	0.000000	-.030391	-1.156329	-.706674	-.110723
	3	0.000000	-.0000017	-.082234	-1.047968	-.638816	-.176544
	4	0.000000	-.0003657	-.085688	-.847562	-.598100	-.205786
	5	0.000000	-.0012455	-.091993	-.752014	-.563459	-.089445
	6	0.000000	-.0020216	-.108788	-.771140	-.653198	-.104445
	7	0.000000	-.0029707	-.082312	-.733691	-.722017	-.055912
	8	0.000000	-.0034929	-.093841	-.839104	-.887531	-.056751
	9	0.000000	-.0039003	-.046074	-.886477	-.716478	-.123676
	10	0.000000	-.0037935	-.092683	-.995035	-.947326	-.271690
	11	0.000000	-.0040989	-.053581	-.970993	-.995783	-.334389
SPR	12	0.000000	-.0037858	-.056812	-.777075	-1.050087	-.358034
	13	0.000000	-.0037499	-.037288	-1.266697	-1.213850	-.473487
	14	0.000000	-.0036546	-.039605	-.802047	-.808197	-.426371
	15	-.000000	-.0038385	-.026186	-1.056679	-.877682	-.546802
	16	-.000000	-.0032560	-.033418	-.733880	-.562021	-.498328
	17	-.000000	-.0034500	-.043492	-.997402	-.726422	-.720548
	18	-.000000	-.0024448	-.042814	-.706746	-.415543	-.458440
	19	-.000000	-.0012538	-.049316	-.972462	-.638697	-.634839
	20	0.000000	-.0001705	-.037584	-.688138	-.404978	-.450752
	21	-.000000	-.0001520	-.046864	-.883135	-.612602	-.608336
	22	-.000000	-.0003348	-.042288	-.706419	-.492952	-.461125
	23	-.000000	-.0000000	-.033135	-.856063	-.612110	-.434242
INV	24	-.000000	-.0002365	-.023116	-.683744	-.543474	-.204599

MAX. VALU'S

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.376509	.0035739	.012265	0.000000	0.000000	.269819
	2	.382642	.0035709	.029410	0.000000	0.000000	.494844
	3	.450386	.0033891	0.000000	0.000000	0.000000	.501744
	4	.533504	.0025103	0.000000	0.000000	0.000000	.435441
	5	.602434	.0012999	.000104	0.000000	.010303	.434767
	6	.681943	.0004069	.012169	0.000000	.011726	.451801
	7	.741033	.0000000	.041757	0.000000	.032103	.493619
	8	.805759	.0000000	.058529	0.000000	.030928	.562268
	9	.861806	.0000001	.088864	0.000000	.036098	.504515
	10	.911487	.0000028	.105543	0.000000	.030549	.377238
	11	.944477	.0002267	.107467	0.000000	0.000000	.463113
SPR	12	.977987	.0006327	.125811	0.000000	.012666	.358571
	13	.970705	.0009725	.110673	0.000000	0.000000	.456371
	14	1.002577	.0013674	.135047	0.000000	.014358	.123864
	15	.962418	.0015483	.096483	0.000000	0.000000	.272573
	16	.967591	.0017697	.124725	0.000000	.026078	.071388
	17	.857931	.0017231	.077972	0.000000	.019881	.169484
	18	.818023	.0018610	.121477	.017402	.013289	.087968
	19	.676971	.0022514	.079339	0.000000	.000000	.166344
	20	.633846	.0023652	.131131	0.000000	.024123	.205250
	21	.532567	.0026445	.077631	.000000	0.000000	.142787
	22	.532021	.0038613	.077112	0.000000	0.000000	.097139
	23	.484993	.0042609	.050105	0.000000	0.000000	.000000
INV	24	.476993	.0042298	.021723	0.000000	0.000000	.000000

MIN-MAX MODAL AMPLITUDES -- CASE 16

LINER THRUST PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.12998E+00	-.34352E+00	-.14053E+00	-.56619E-01	-.37436E-01	-.35673E-01	
MAX	.67723E+00	.25668E+00	.74758E-01	.37060E-01	.23240E-01	.16223E-01	

LINER MOMENT PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.23647E-03	-.46572E-05	0.	-.91793E-03	-.90186E-03	-.93515E-03	-.75799E-03
MAX	.44907E-07	.16279E-04	.37943E-02	.14856E-02	.92074E-03	.58932E-03	.60643E-03

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.41169E-02	-.66033E-01	-.38981E-01	-.28294E-01	-.22235E-01	-.27729E-01	
MAX 0.	.43961E-02	0.	.23055E-01	.24954E-01	.30973E-01	.29335E-01	

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.66863E+00	-.36853E+00	-.28006E+00	-.20112E+00	-.15502E+00	-.15180E+00	-.13287E+00
MAX 0.	.15085E+00	.18371E+00	.11104E+00	.90128E-01	.10603E+00	.89633E-01	

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.46650E-01	-.84454E-01	-.19289E+00	-.74459E-01	-.52257E-01	-.36268E-01	
MAX 0.	.11619E+00	.52436E+00	.22911E+00	.10891E+00	.13404E+00	.12649E+00	



CASE 16

CROWN THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .000250 .010772 .005304 .001502 .001190 .001166 .000992  
MIN. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. 1.798720 1.793440 1.272157 1.045836 1.022088 .996352 .979900  
INPUT  
VARIABLE  
.97296E-02  
0.  
.37651E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .031466 .031503 .010893 .003682 .002978 .003285 .000918  
MIN. -.000236 -.000239 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. .000013 .001187 .990937 .873799 1.108786 1.087242 1.029824  
INPUT  
VARIABLE  
.10381E-03  
0.  
.35739E-02

CROWN SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .005184 .000001 .005773 .002400 .008670 .007965 .007354  
MIN. .591997 .072669 .752232 .921902 1.017727 1.059774 1.077216  
MAX. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.16553E-01  
-.11294E+01  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .002484 .002204 .000023 .000331 .000204 .000200 .000271  
MIN. 0.000000 0.000000 -.000000 -.000002 -.000017 -.000054 -.000000  
MAX. .692479 1.012560 1.009296 .982616 .970312 .984781  
INPUT  
VARIABLE  
.23895E-01  
0.  
.97799E+00

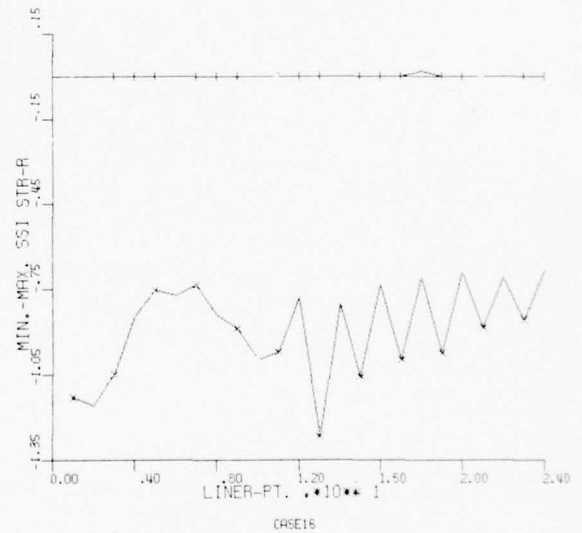
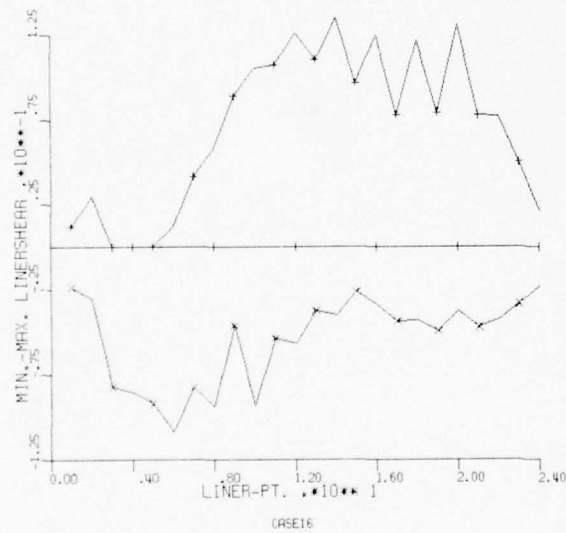
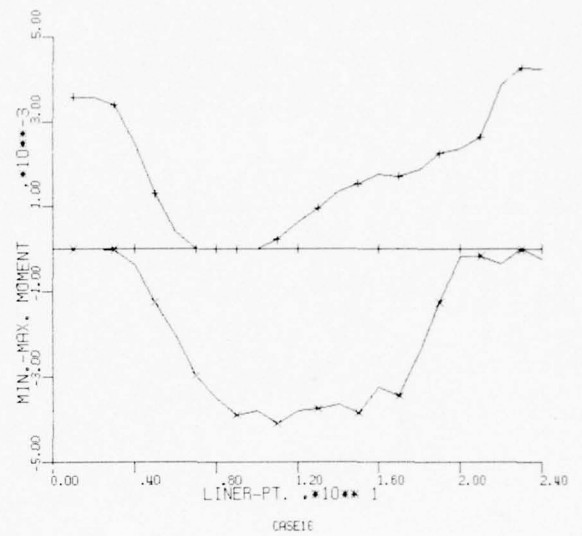
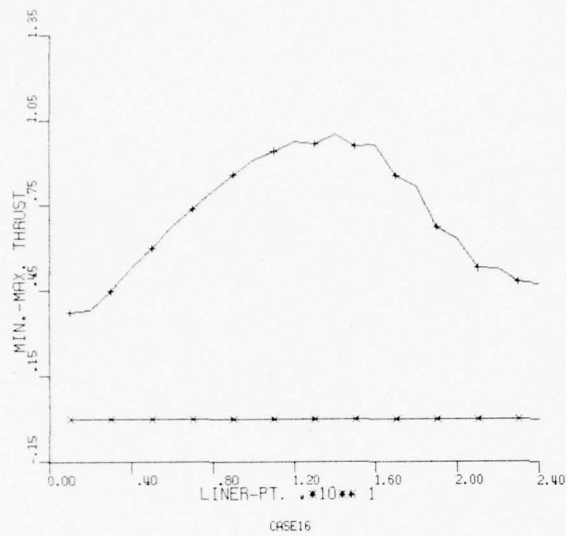
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6  
SRSS .032024 .032022 .011082 .008134 .001363 .001257 .001149  
MIN. .062463 .062486 1.006034 1.021716 .951306 .905661 .985326  
MAX. .000071 .000107 0.000000 0.000000 .256579 .174618 .635948  
INPUT  
VARIABLE  
.10211E-03  
-.37858E-02  
.63267E-03

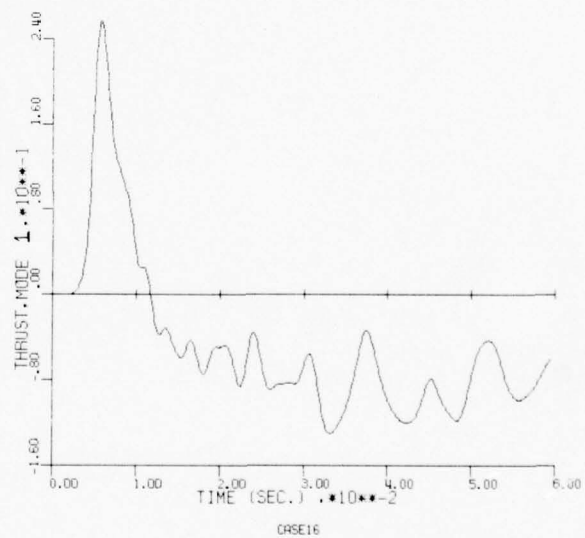
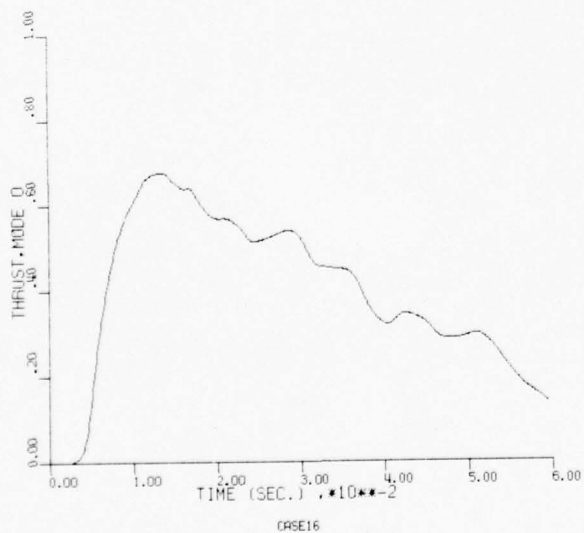
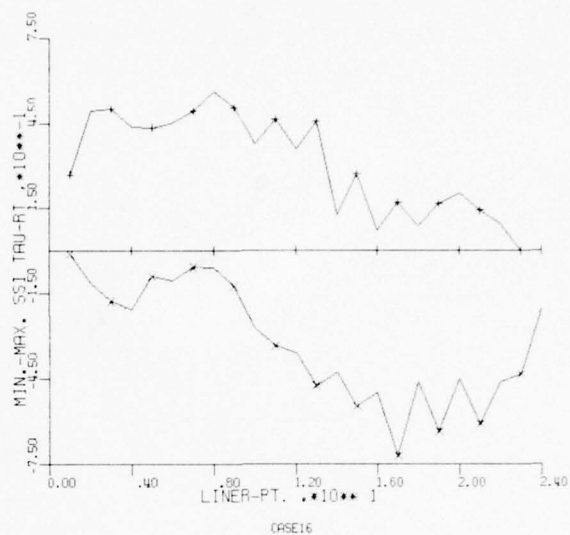
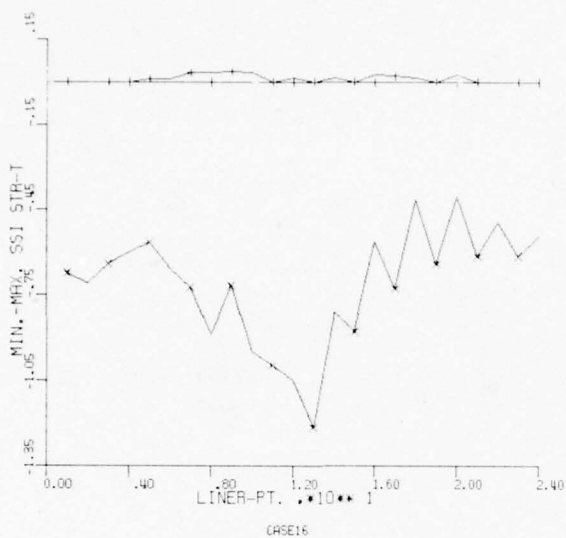
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6  
SRSS .014259 .013885 .007528 .008267 .015169 .014906 .015578  
MIN. .860445 .855445 1.081540 1.073143 1.155771 1.176908 1.241861  
MAX. 0.000000 0.000000 .067003 .105277 .008669 .036653 .000699  
INPUT  
VARIABLE  
.15035E-01  
-.77708E+00  
0.

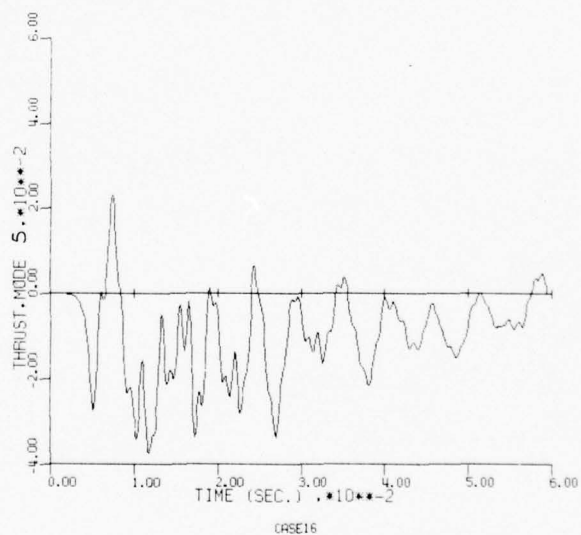
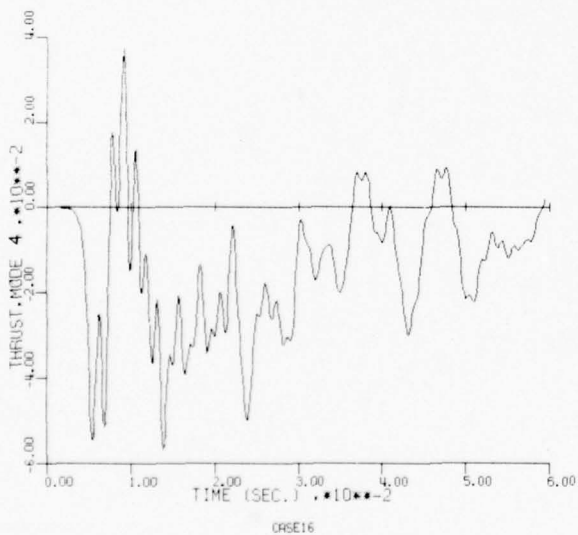
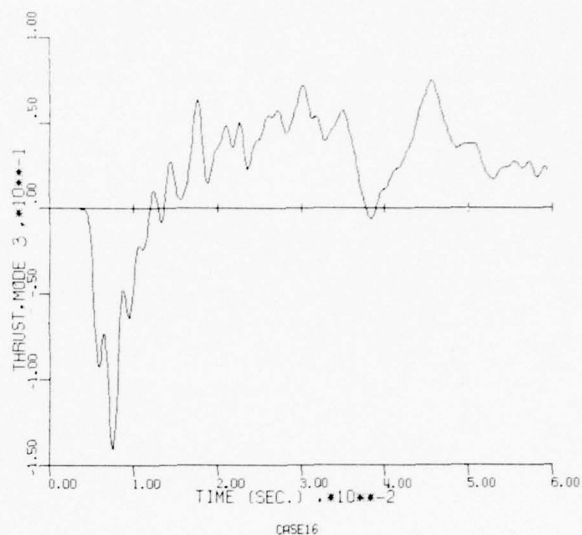
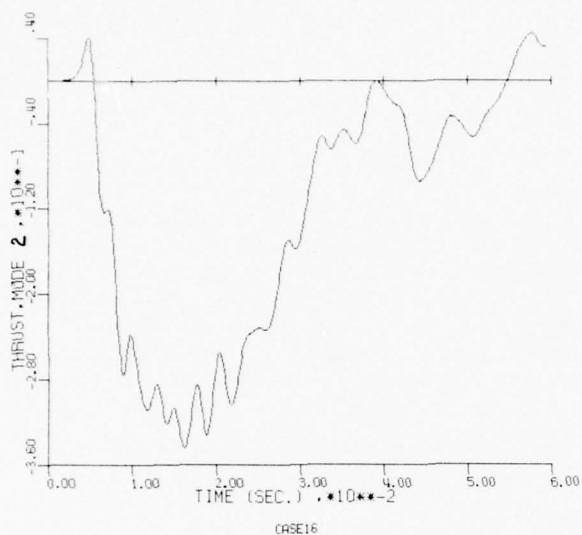
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6  
SRSS .008689 .000704 .003446 .000561 .000797 .000779 .000911  
MIN. 0.000000 -.040588 -.033277 -.000001 -.012067 -.000000 -.001728  
MAX. 1.419801 1.493477 1.112142 1.030807 1.007693 1.036117 1.004219  
INPUT  
VARIABLE  
.12820E-01  
-.57778E-48  
.47699E+00

INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6  
SRSS .042837 .012809 .009830 .001508 .006689 .006450 .004609  
MIN. 1.000001 .996535 0.000000 2.560070 2.076991 1.239699 1.352032  
MAX. .000011 0.000000 .842926 .907754 1.149962 1.177543 1.086838  
INPUT  
VARIABLE  
.13345E-03  
-.23646E-03  
.42298E-02

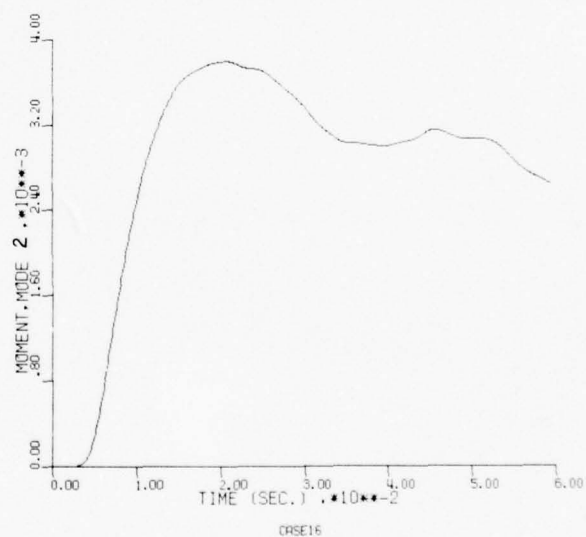
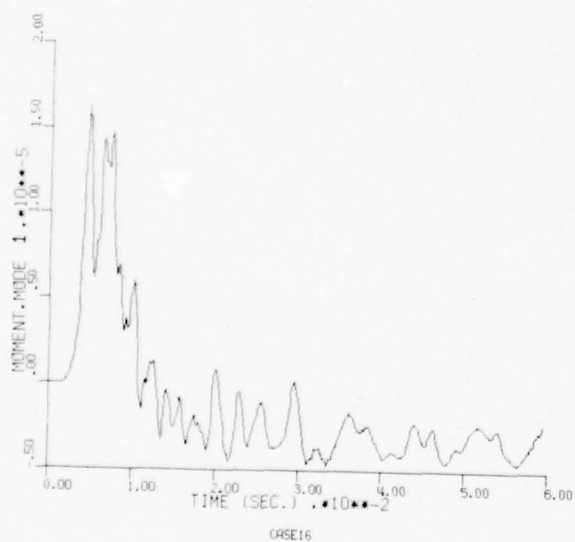
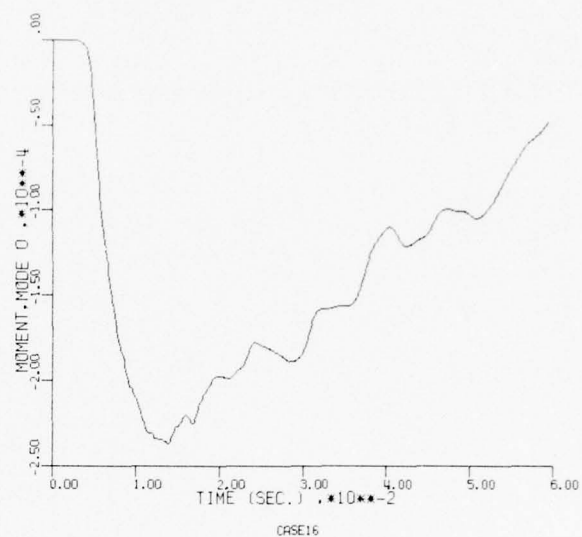
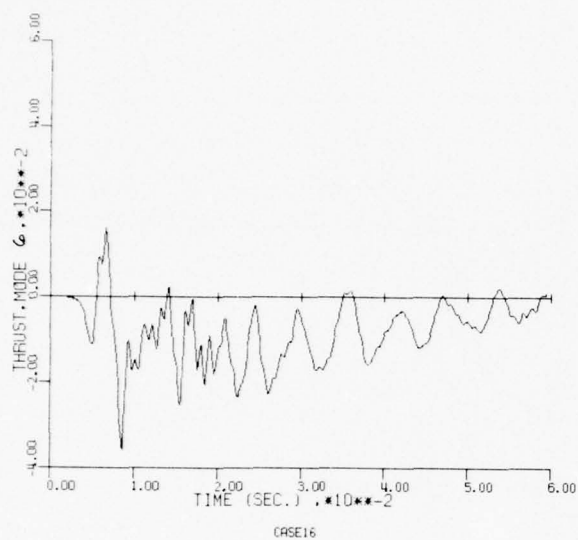
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6  
SRSS .011441 .006778 .001587 .001446 .007084 .007718 .007169  
MIN. .977896 1.103116 1.006798 1.037412 1.192318 1.171516 1.161472  
MAX. 0.000000 .164919 .041361 .078606 .019499 .023322 .032911  
INPUT  
VARIABLE  
.18409E-01  
-.68374E+00  
0.

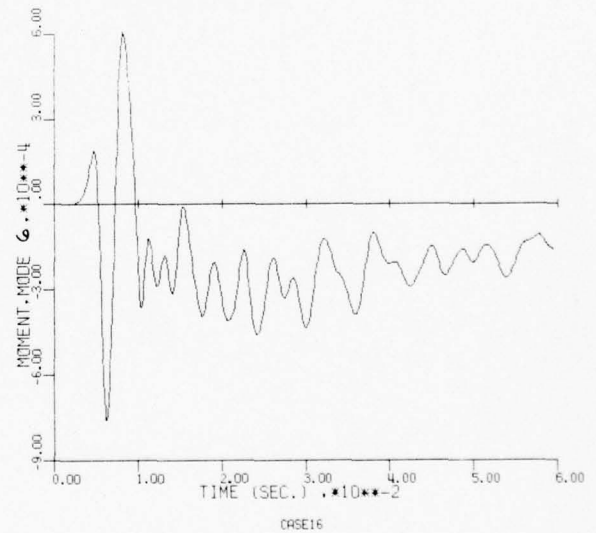
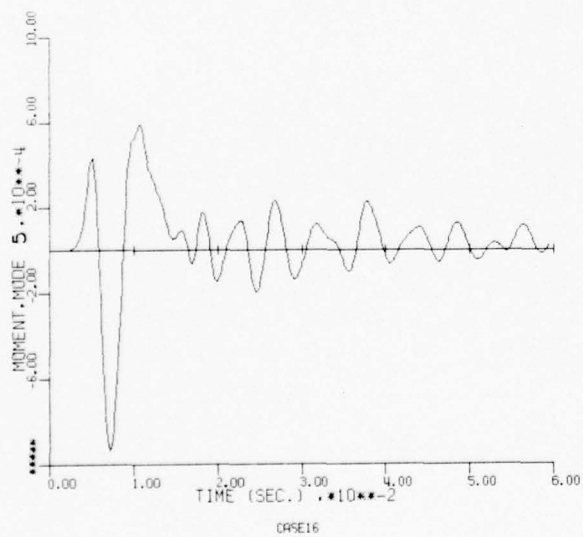
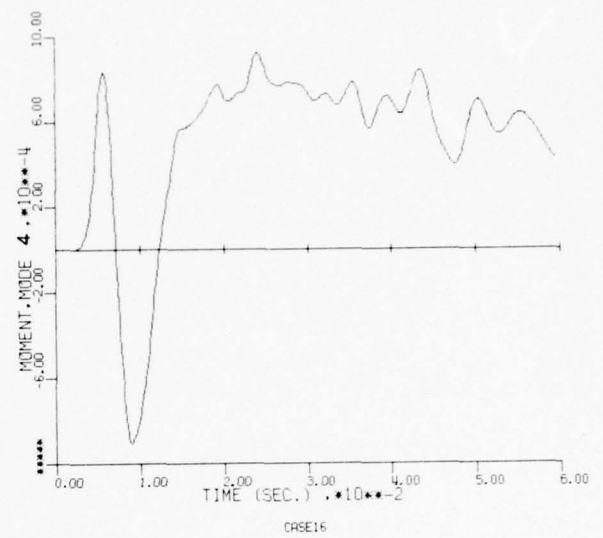
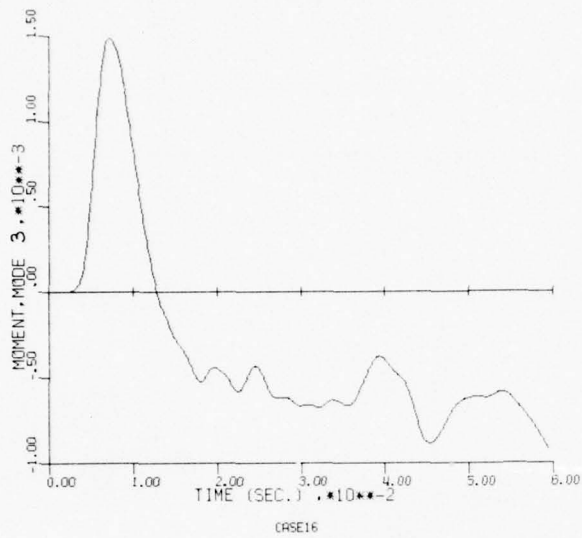


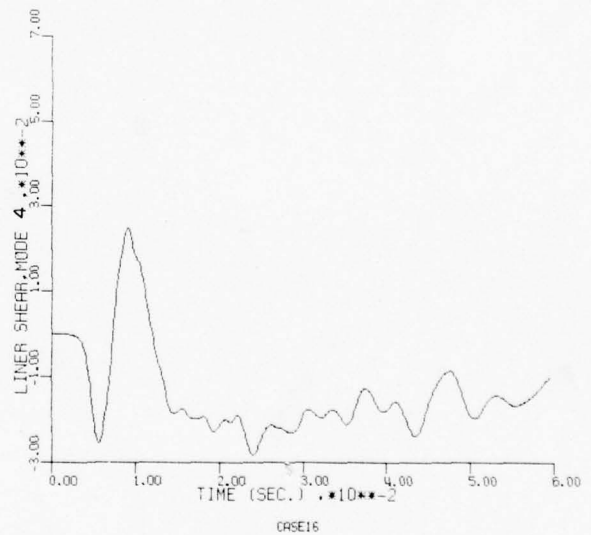
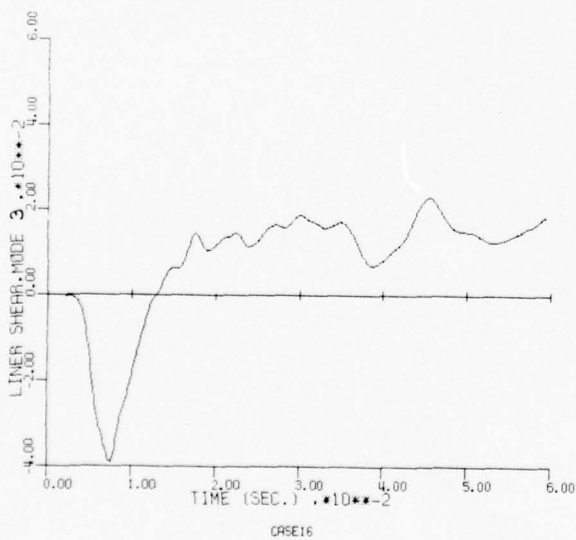
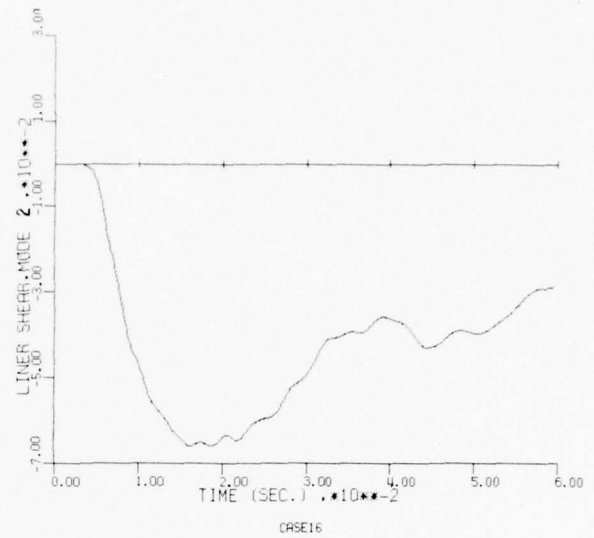
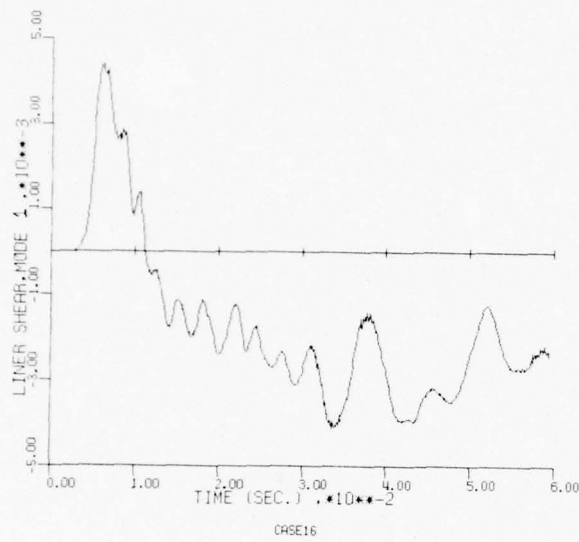


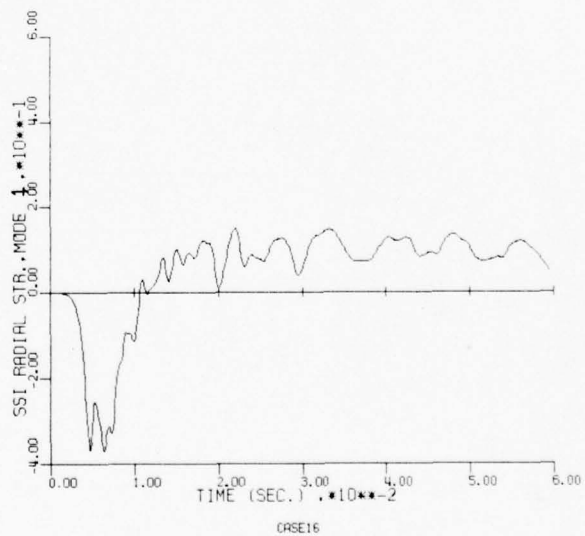
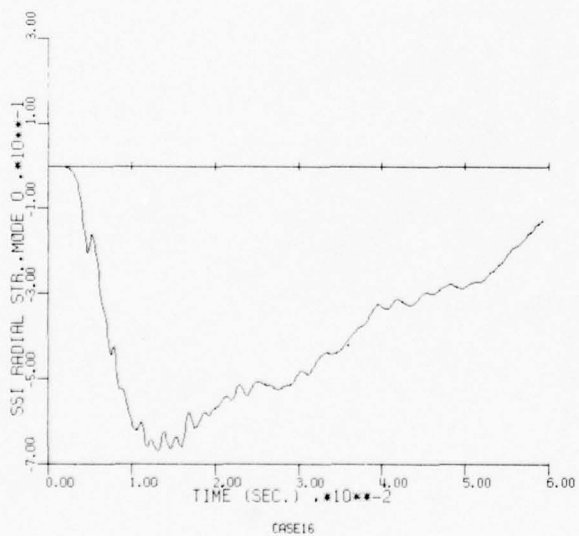
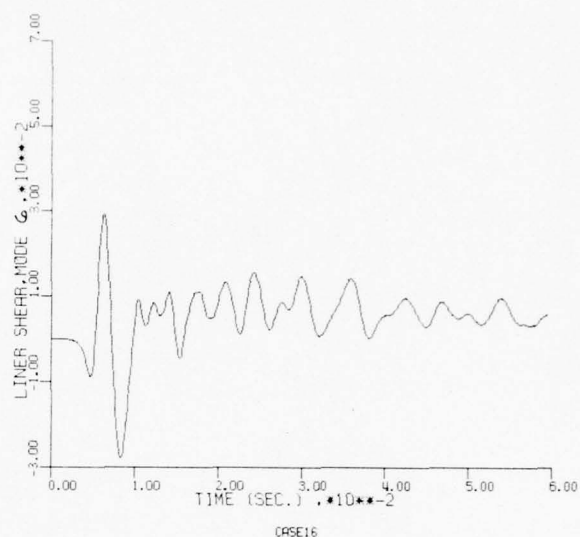
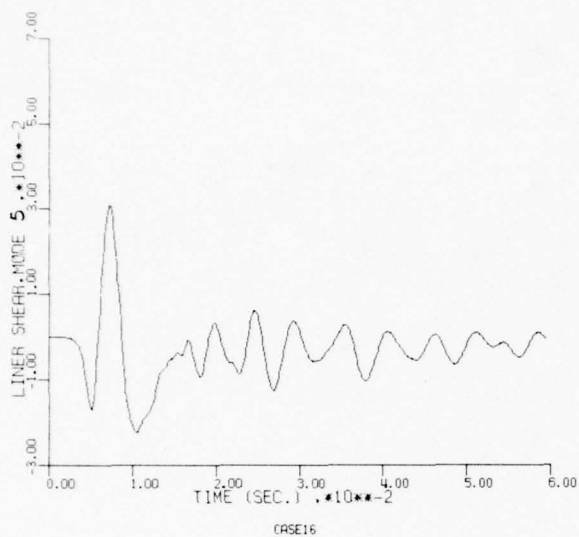


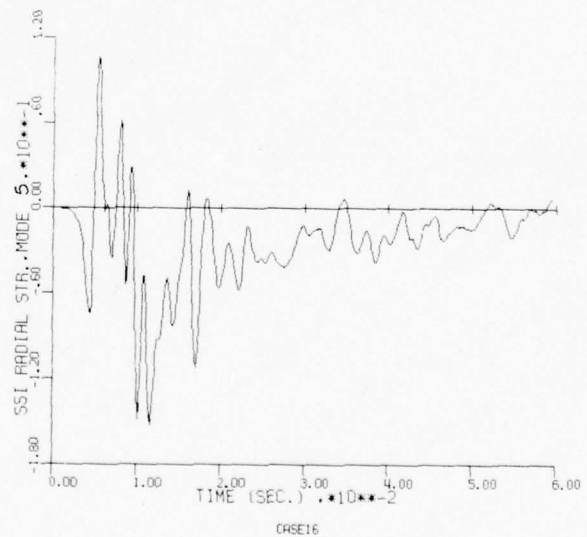
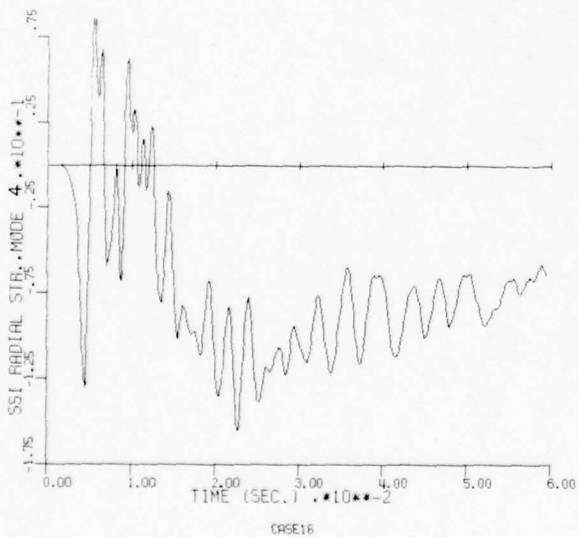
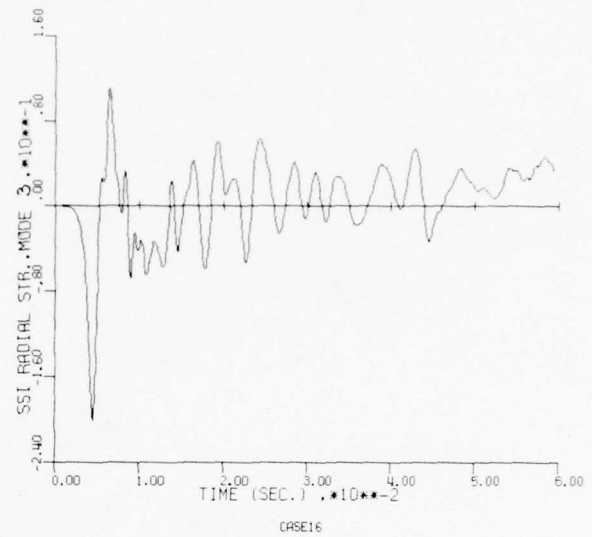
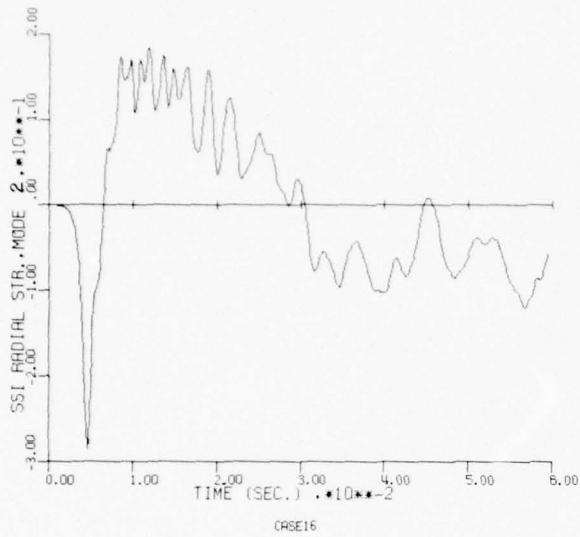




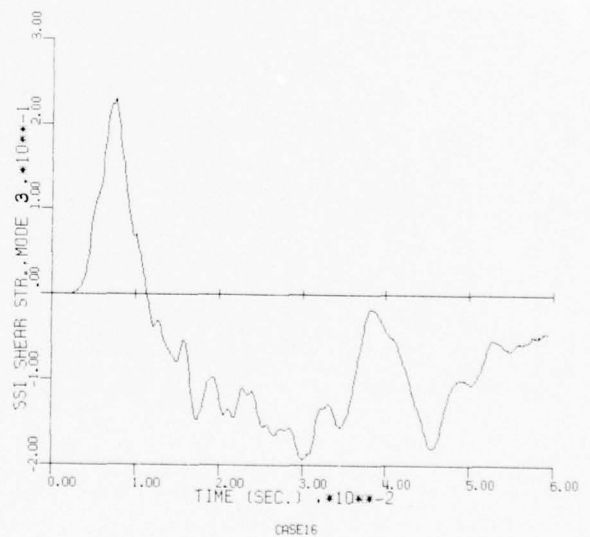
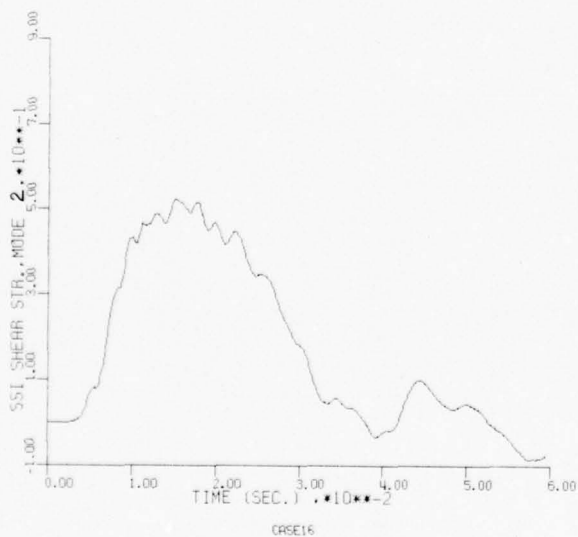
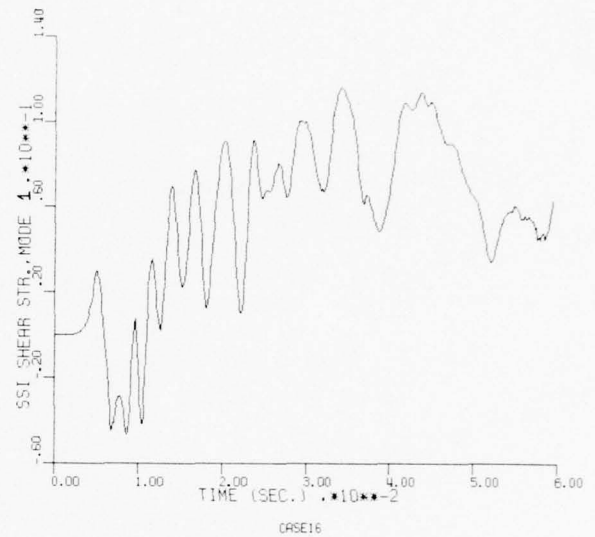
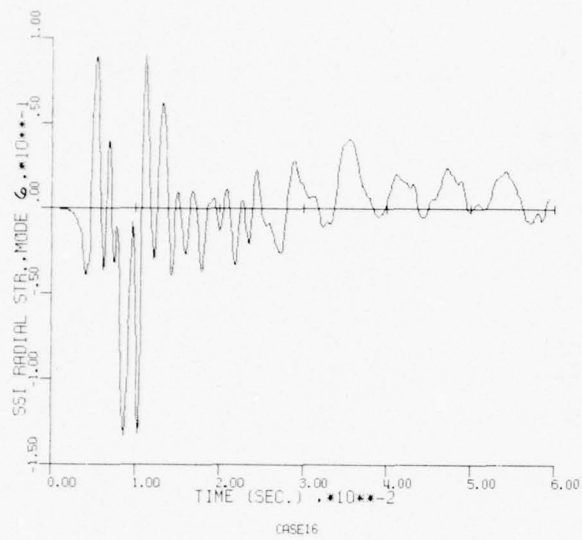


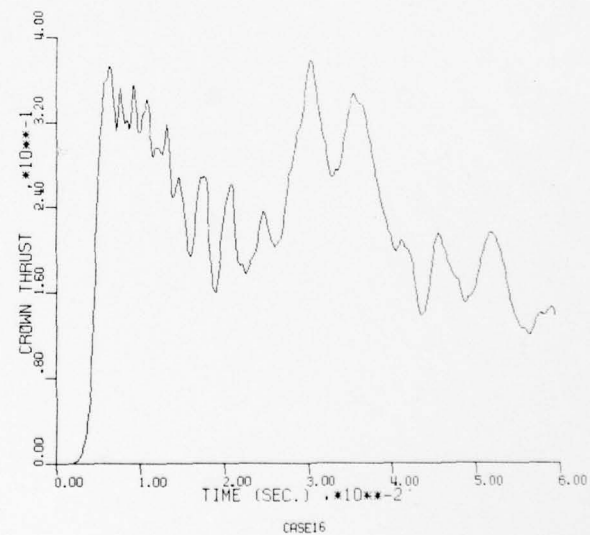
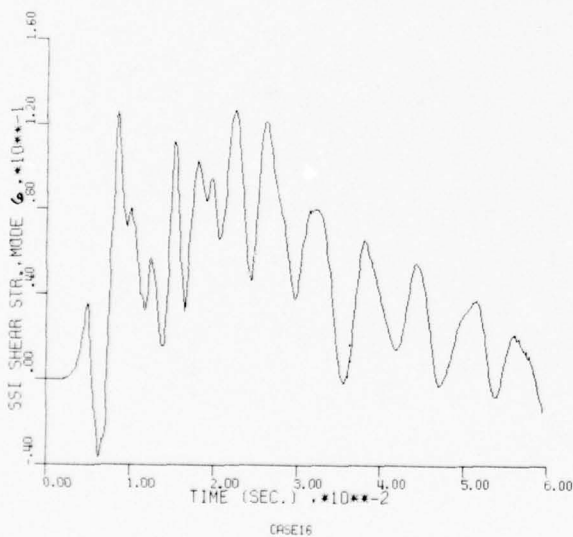
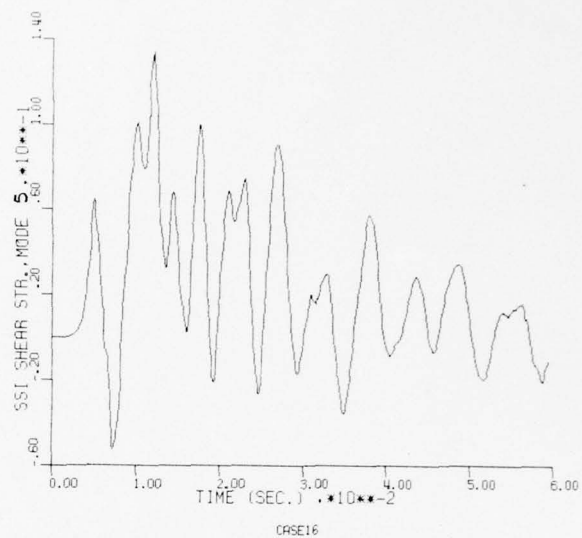
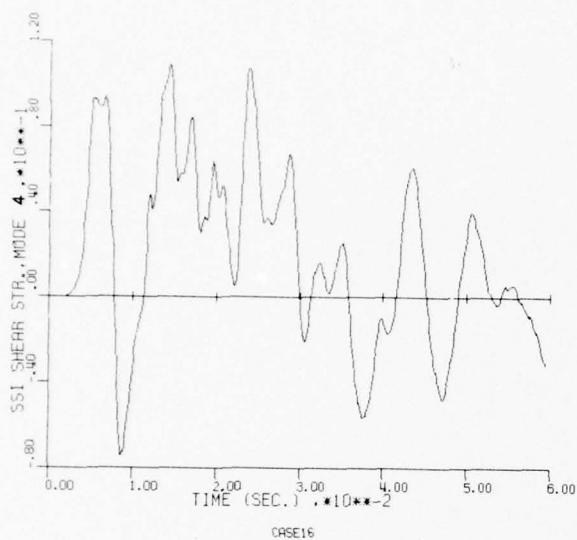


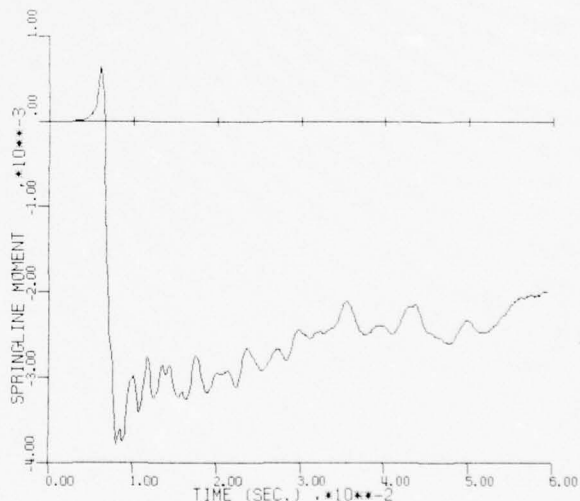
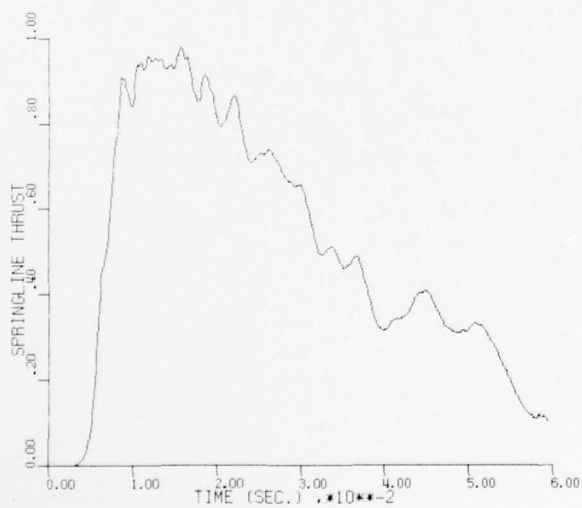
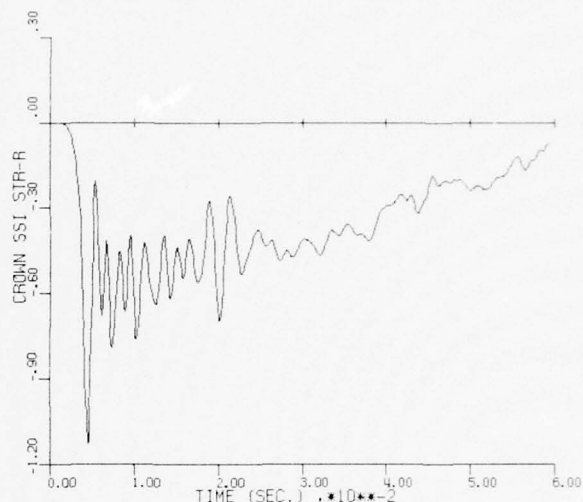
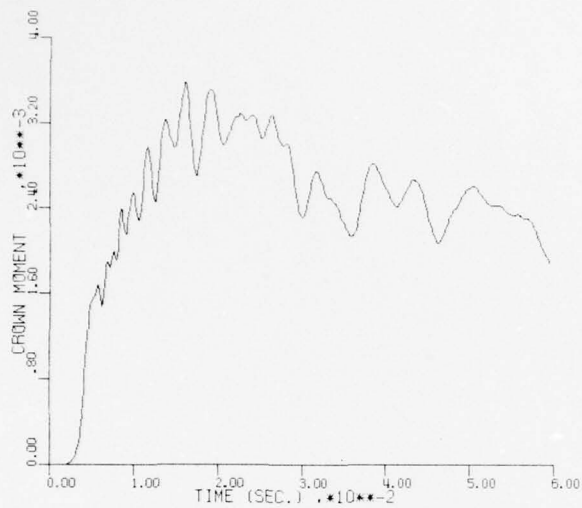


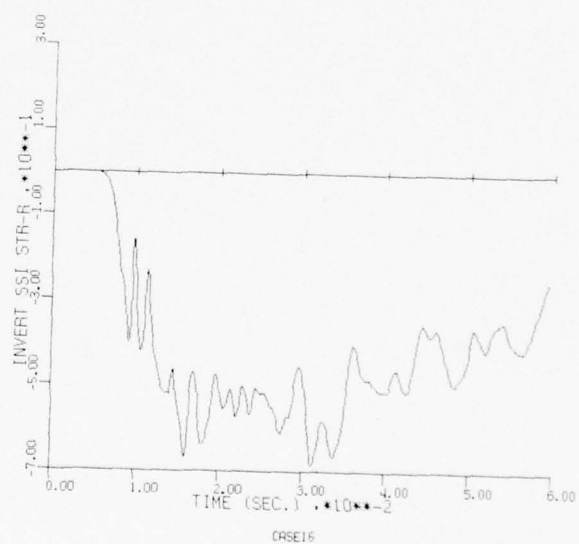
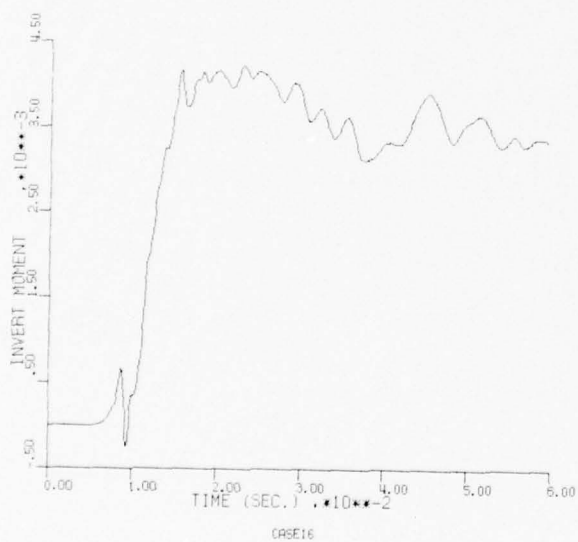
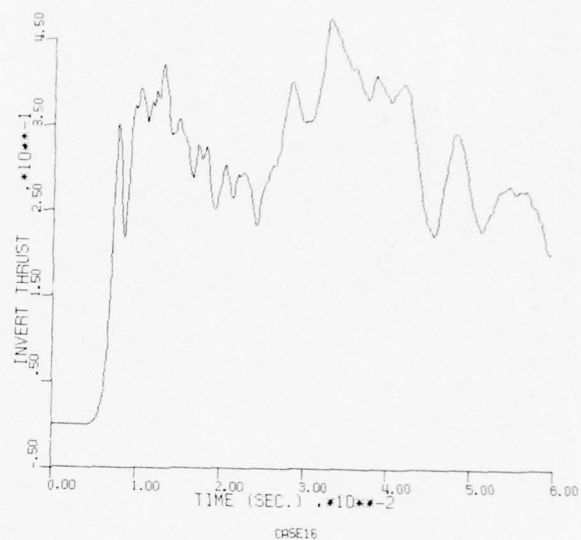
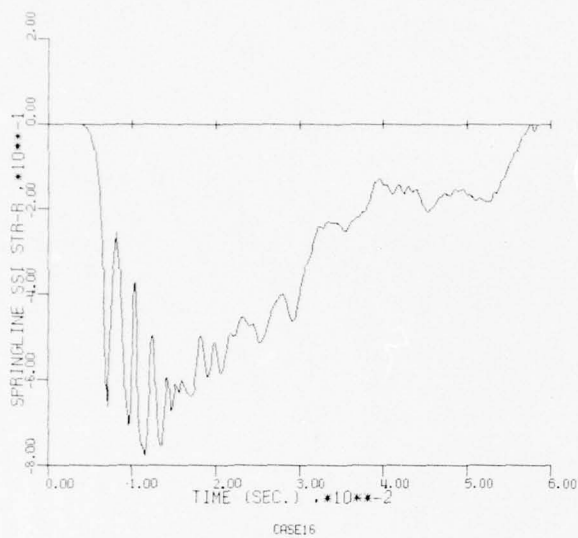












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CASE 17

MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-R1
CP	1	0.000000	0.000000	-.014156	-.372847	-.127385	-.000000
	2	0.000000	0.000000	-.033454	-.360185	-.125986	0.000000
	3	0.000000	0.000000	-.055654	-.339594	-.125457	0.000000
	4	0.000000	0.000000	-.072130	-.314611	-.118681	0.000000
	5	0.000000	-.0000902	-.086116	-.281069	-.125188	0.000000
	6	0.000000	-.0017929	-.099219	-.259579	-.115530	0.000000
	7	0.000000	-.0058445	-.097581	-.207889	-.121934	-.020475
	8	0.000000	-.0105996	-.094799	-.177011	-.106263	-.017558
	9	0.000000	-.0159121	-.080877	-.154553	-.103093	-.019502
	10	0.000000	-.0208225	-.072633	-.119577	-.090833	-.012071
	11	0.000000	-.0249358	-.051132	-.102612	-.080723	-.028506
SPR	12	0.000000	-.0276193	-.031386	-.091630	-.081325	-.044462
	13	0.000000	-.0285339	-.000586	-.090816	-.079977	-.054215
	14	0.000000	-.0279251	-.000000	-.096521	-.085292	-.056111
	15	0.000000	-.0256075	-.000000	-.103937	-.078774	-.059779
	16	0.000000	-.0209997	-.000000	-.106512	-.088236	-.063646
	17	0.000000	-.0150517	-.000000	-.118724	-.096891	-.079589
	18	0.000000	-.0073932	-.000000	-.124132	-.085154	-.074840
	19	0.000000	-.0000000	-.000000	-.164575	-.080112	-.078892
	20	0.000000	-.0000000	-.000002	-.166968	-.068712	-.070100
	21	0.000000	-.0000000	-.000014	-.193039	-.074847	-.071200
	22	0.000000	-.0000000	-.000041	-.202063	-.071939	-.054264
	23	0.000000	-.0000000	-.000045	-.211546	-.076990	-.047237
INV	24	0.000000	-.0000000	-.000021	-.208362	-.077953	-.010993

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-R1
CR	1	.132539	.0234111	.000000	0.000000	0.000000	.021911
	2	.140094	.0221296	0.000000	0.000000	0.000000	.050185
	3	.153562	.0197493	0.000000	0.000000	0.000000	.076118
	4	.170905	.0158891	0.000000	0.000000	0.000000	.094685
	5	.191662	.0108559	0.000000	0.000000	0.000000	.105506
	6	.213712	.0050256	0.000000	0.000000	0.000000	.095669
	7	.231771	.0000000	.000000	0.000000	0.000000	.097686
	8	.249762	.0000000	.000010	0.000000	0.000000	.074474
	9	.259192	.0000000	.000896	0.000000	0.000000	.068800
	10	.264572	.0000000	.004664	0.000000	0.000000	.027815
	11	.264954	.0000000	.014119	0.000000	0.000000	.017873
SPR	12	.255978	.0000000	.024313	0.000000	0.000000	.000000
	13	.244875	.0000000	.038108	0.000000	0.000000	.000000
	14	.227475	.0000000	.051035	0.000000	0.000000	.000000
	15	.207283	.0000011	.068792	0.000000	0.000000	.000000
	16	.185995	.0000310	.086662	0.000000	0.000000	.000000
	17	.158970	.0002630	.100848	0.000000	0.000000	.000000
	18	.134617	.0012644	.113809	0.000000	0.000000	.000000
	19	.107124	.0038959	.113012	0.000000	0.000000	.000000
	20	.091687	.0106797	.111402	0.000000	0.000000	.000000
	21	.071330	.0169171	.095890	0.000000	0.000000	.000000
	22	.067856	.0230561	.076000	0.000000	0.000000	.000000
	23	.060461	.0272872	.048715	0.000000	0.000000	.000000
INV	24	.059328	.0295532	.017864	0.000000	0.000000	.003976



## MIN-MAX MODAL AMPLITUDES -- CASE 17

## LINER THRUST PEAK MODAL AMPLITUDES

	0.	0.	- .99218E-01	- .26449E-01	- .74666E-02	- .39587E-02	- .16194E-02
MIN	0.	0.	.29965E-04	.58935E-03	.40539E-02	.44863E-02	.18095E-02
MAX	.15637E+00	.73344E-01					

LINER MOMENT PEAK MODAL AMPLITUDES

MIN	- .76149E-03	0.	0.	- .34424E-02	- .16490E-02	- .98958E-03	- .50626E-03
MAX	.23912E-13	.17034E-03	.27136E-01	.43820E-02	.51583E-03	.46089E-03	.72044E-04

LINER SHEAR PEAK MODAL AMPLITUDES

MIN	0.	- .28230E+07	- .99804E+01	- .27768E+01	- .58232E+02	- .35967E+02	- .91217E+03
MAX	0.	.43535E+02	0.	.13268E+01	.10699E+01	.60478E+02	.42937E+02

SS1 RADIAL STR. PEAK MODAL AMPLITUDES

MIN	-1.14432E+00	-1.3303E+00	-1.0732E+00	-.48948E-01	-.18343E-01	-.61813E-02	-.14074E-02
MAX	0.	.57642E-02	0.	.19494E-01	.23324E-01	.17630E-01	.19137E-01

SSCI SHEAR STR. PEAK MODAL AMPLITUDES

MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN 0.	0.	0.	0.	0.
-:29199E-01	0.	0.	0.	0.
33559E-02	.69049E-01	.38435E-01	.21525E-01	.13550E-01
MAX 0.	0.	0.	0.	0.
-.46867E-02	-.96000E-02	-.96000E-02	-.46867E-02	-.46867E-02
75260E-02	.75260E-02	.75260E-02	.75260E-02	.75260E-02

CASL17

CROWN THRUST  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .030583 .041959 .008787 .002172 .001708 .00411 MODES 0-5 MODES 0-6  
MIN. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. 1.179820 1.673587 1.221313 1.029755 .991198 .995850 1.003258  
INPUT  
VARIABLE  
.21385E-02  
0.  
.13254E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .063751 .063632 .004636 .004844 .003564 .001224 MODES 0-5 MODES 0-6  
MIN. -.000761 -.000650 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. .000000 .000001 1.124940 1.035898 1.019769 1.013074 1.004939  
INPUT  
VARIABLE  
.47303E-03  
0.  
.23411E-01

CROWN SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .017123 .018571 .001638 .010581 .008315 .005873 MODES 0-5 MODES 0-6  
MIN. .387068 .090954 .885072 1.004421 1.024848 1.013198 1.002013  
MAX. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.61185E-02  
-.37285E+00  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\*  
SRSS .015190 .014857 .000042 .000546 .000338 .000017 MODES 0-5 MODES 0-6  
MIN. 0.000000 0.000000 -.000000 -.000000 -.000000 -.000000 0.000000  
MAX. .610881 .625765 .976474 .988177 .997959 1.002632 1.004437  
INPUT  
VARIABLE  
.47885E-02  
0.  
.25598E+00

SPRINGLINE MOMENT

```

*****
MODE 0   MODES 0-1   MODAL HISTORY/INPUT   VARIABLE   MODES 0-4   MODES 0-5   MODES 0-6
SRSS     .055316     .055323     .002892     .001216     .000078     .000628     .000600
MIN.     .027571     .027227     .990386     .974439     .991786     .989388     .983336
MAX.     .000000     .000000     0.000000     0.000000     .000000     .000000     .000000

INPUT
VARIABLE
.53226E-03
-.27619E-01
.36047E-40

```

SPRINGLINE SSI STR-R

```

*****
MODE 0   MODES 0-1   MODAL HISTORY/INPUT   VARIABLE   MODES 0-4   MODES 0-5   MODES 0-6
SRSS     .103153     .102696     .005450     .003110     .014014     .018004     .003224
MIN.     1.574995     1.646739     1.220859     1.213019     .989916     .969121     .970956
MAX.     0.000000     0.000000     .000763     .003243     0.000000     .001170     0.000000

INPUT
VARIABLE
.12715E-02
-.91630E-01
0.

```

INVERT THRUST

```

*****
MODE 0   MODES 0-1   MODAL HISTORY/INPUT   VARIABLE   MODES 0-4   MODES 0-5   MODES 0-6
SRSS     .091974     .063571     .019251     .002735     .003893     .001397     .000561
MIN.     0.000000     -.000007     0.000000     -.000000     -.000000     -.000000     -.000000
MAX.     2.635730     2.009173     .025072     .997134     .989292     1.017448     1.005162

INPUT
VARIABLE
.85654E-03
0.
.59328E-01

```

INVERT MOMENT

```

*****
MODE 0   MODES 0-1   MODAL HISTORY/INPUT   VARIABLE   MODES 0-4   MODES 0-5   MODES 0-6
SRSS     .050234     .050357     .010185     .000457     .000857     .001544     .000127
MIN.     -.000761     -.000910     0.000000     -.000029     0.000000     -.000000     0.000000
MAX.     .000000     0.000000     .987715     .999157     1.008852     1.011263     1.001540

INPUT
VARIABLE
.46095E-03
-.19147E-21
.29553E-01

```

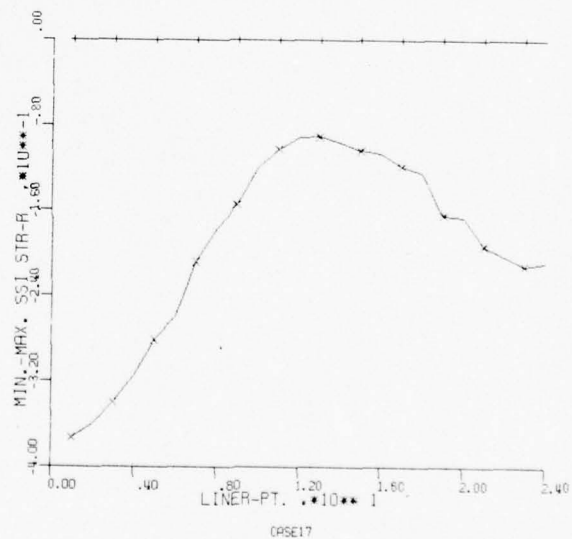
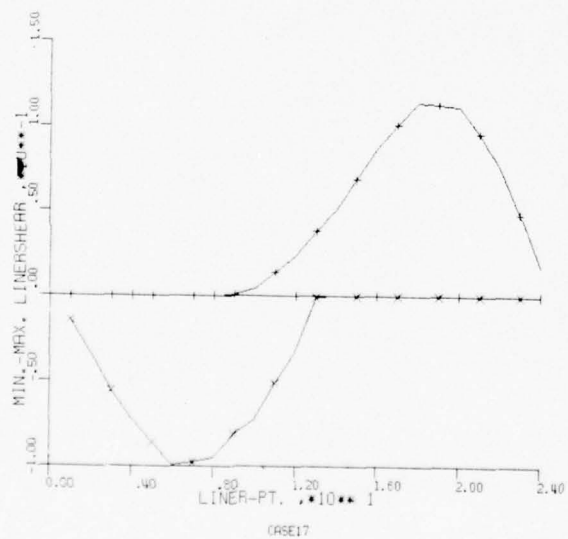
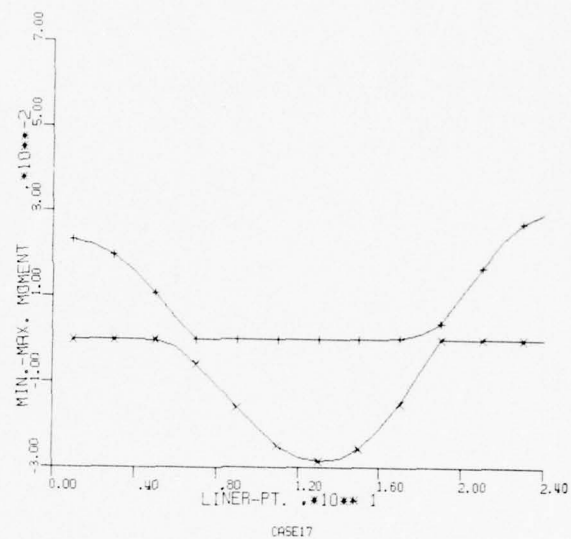
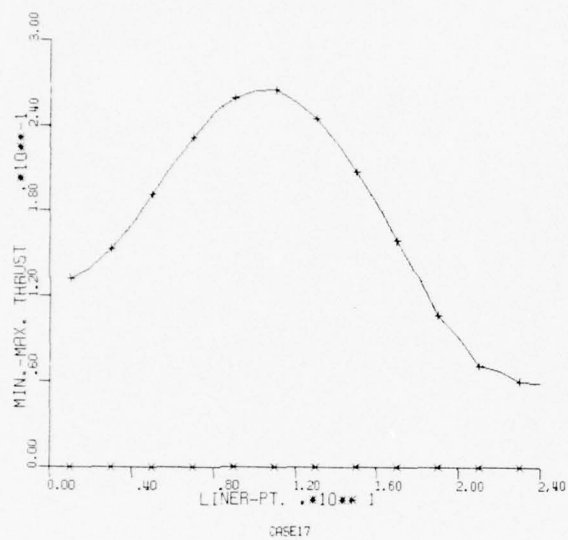
INVERT SSI STR-R

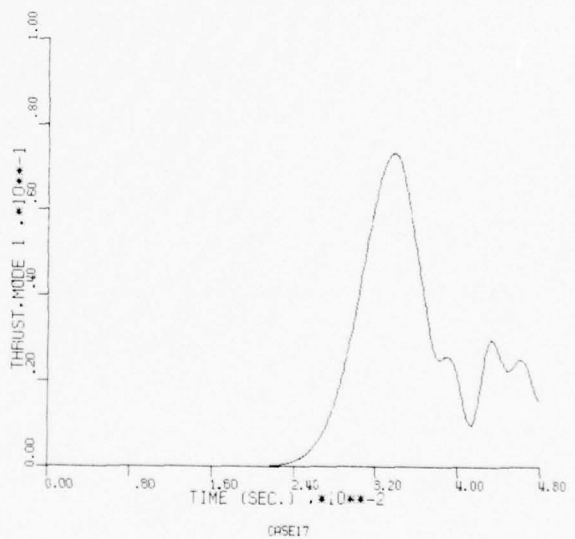
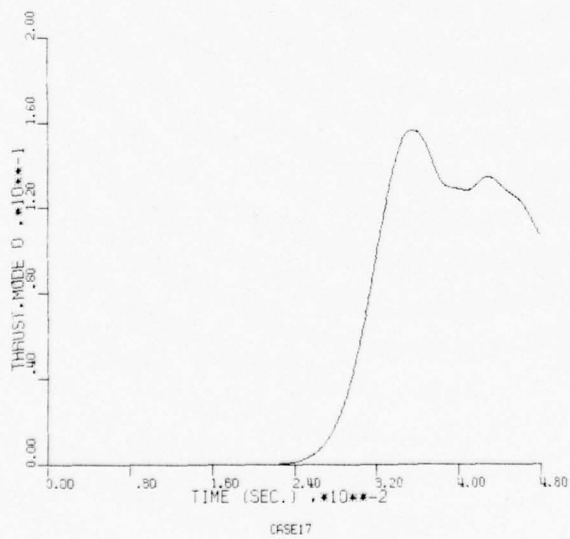
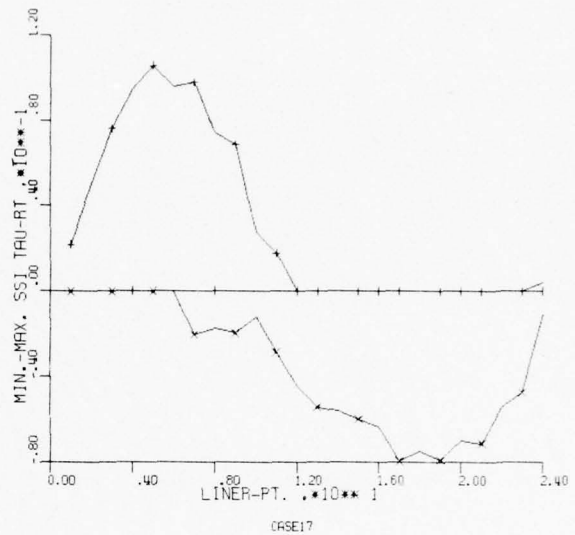
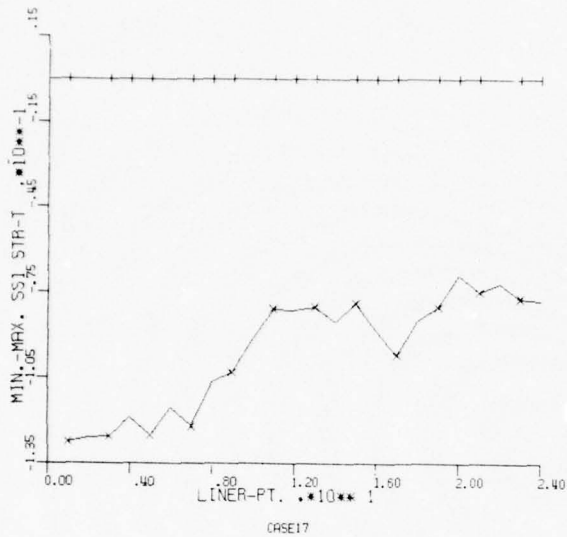
```

*****
MODE 0   MODES 0-1   MODAL HISTORY/INPUT   VARIABLE   MODES 0-4   MODES 0-5   MODES 0-6
SRSS     .012922     .010254     .020987     .010508     .006332     .010832     .005173
MIN.     .692626     .576084     1.075777     1.060079     1.026579     1.048478     1.001846
MAX.     0.000000     .020607     0.000000     .007512     0.000000     .000192     0.000000

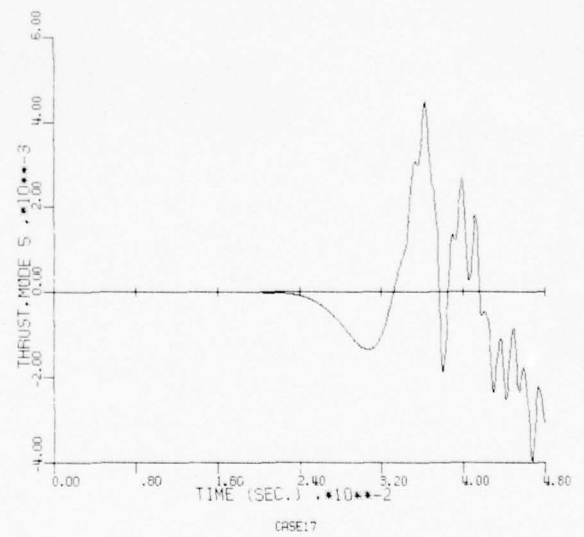
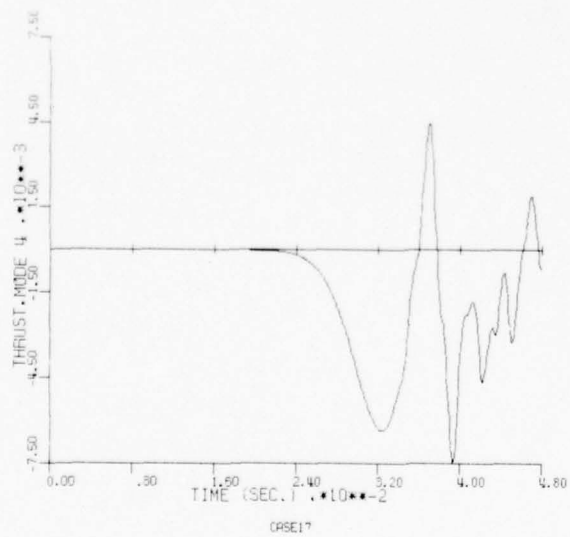
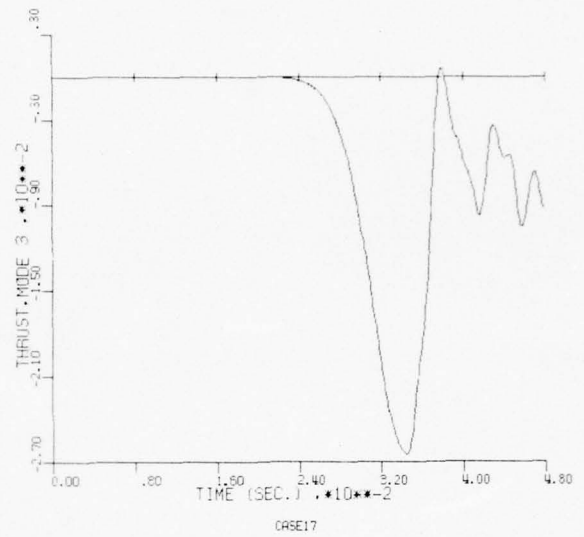
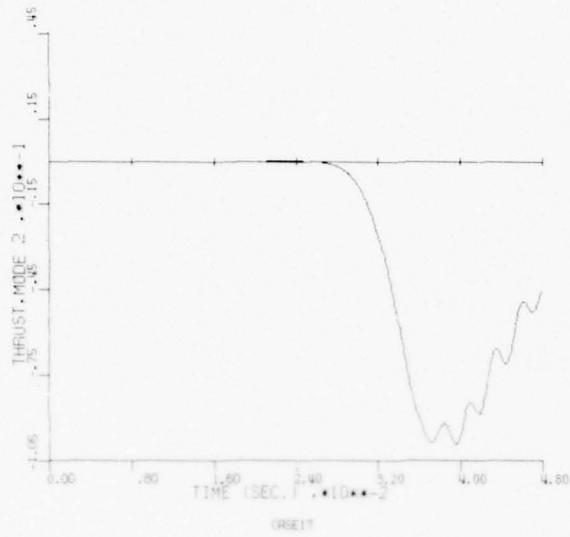
INPUT
VARIABLE
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-.20836E+00
0.

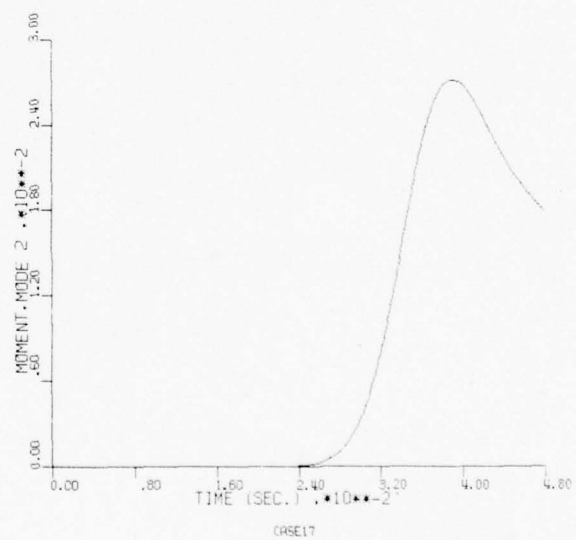
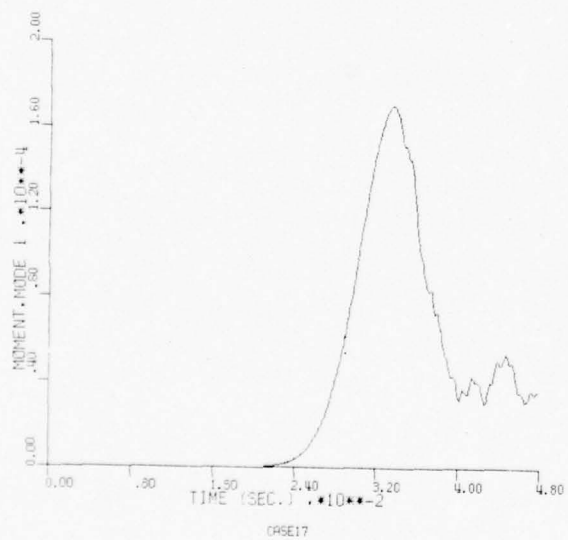
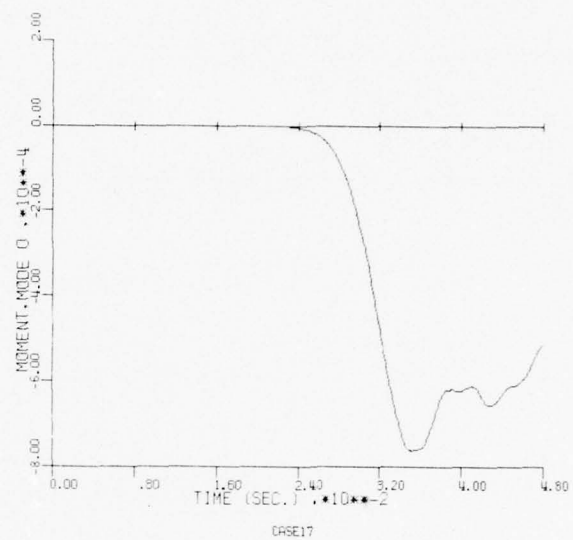
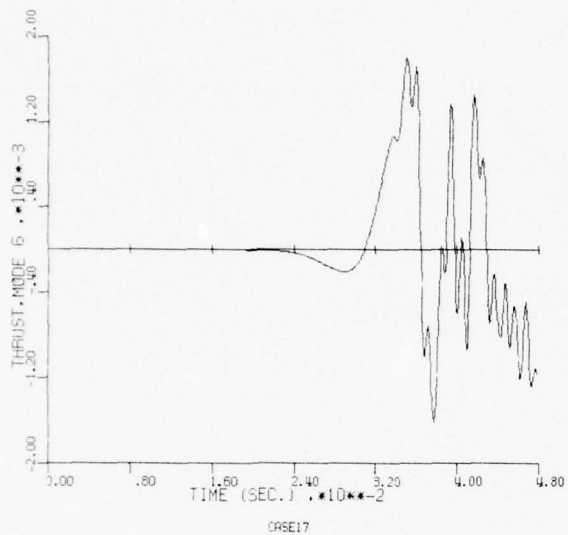
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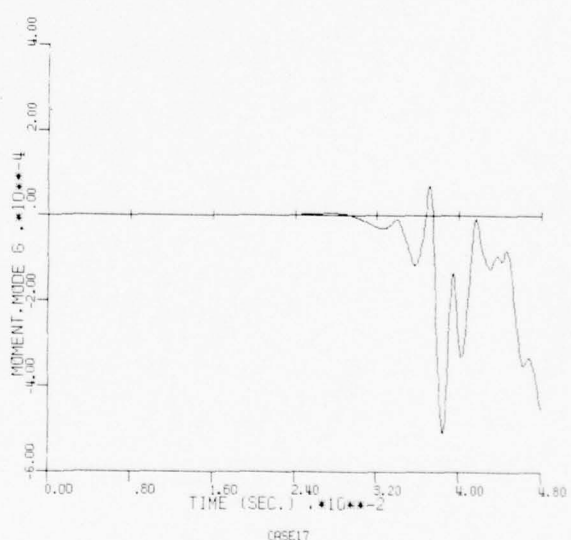
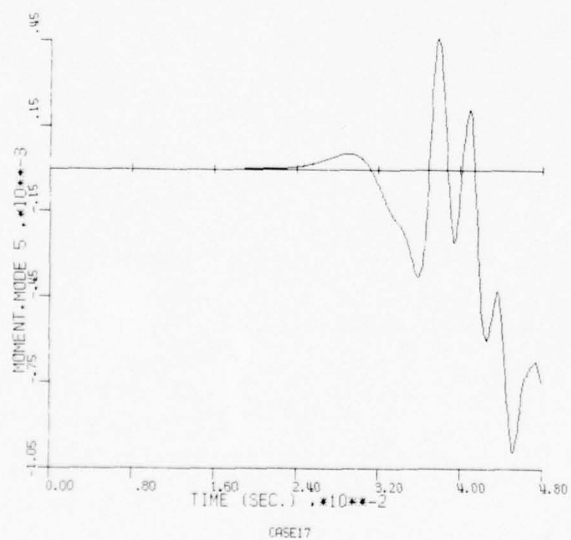
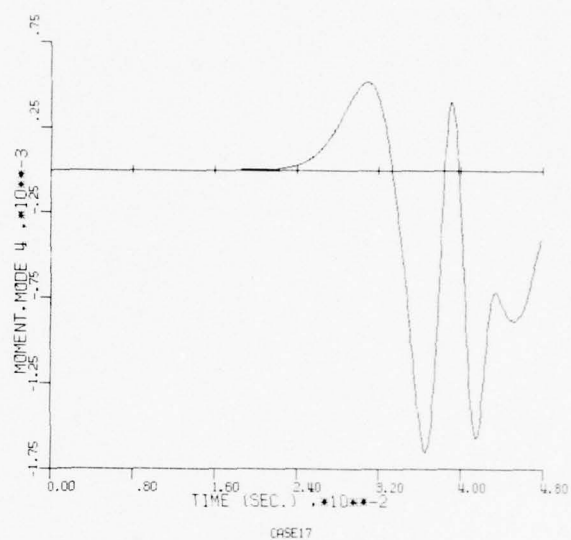
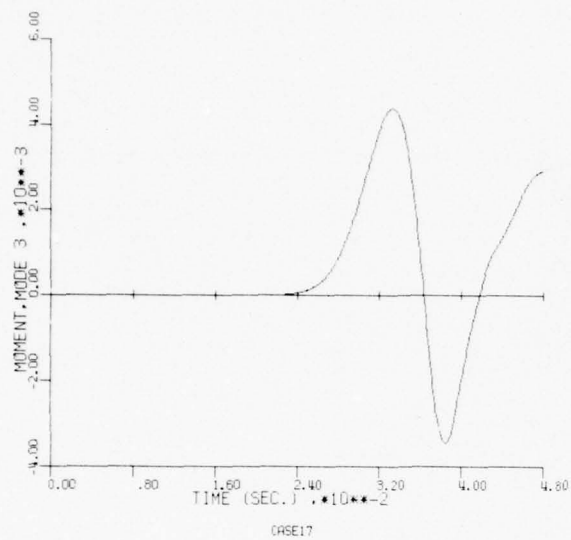


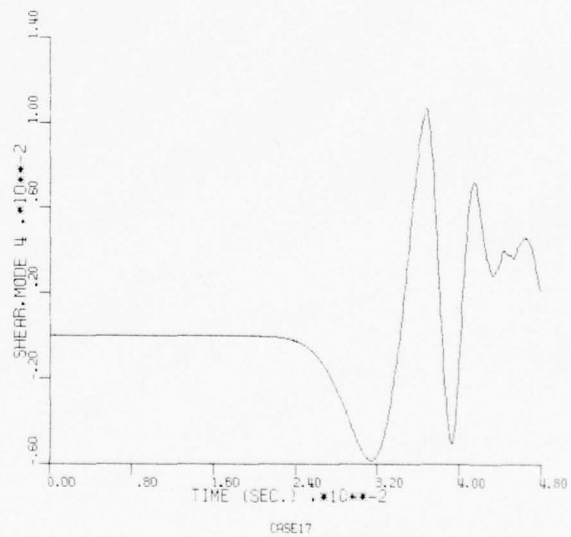
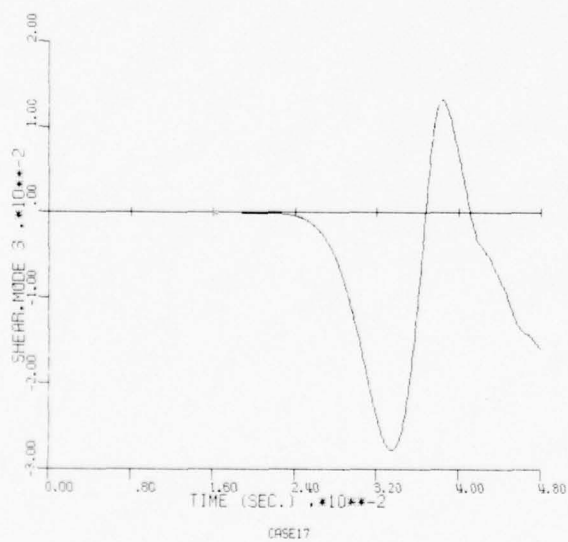
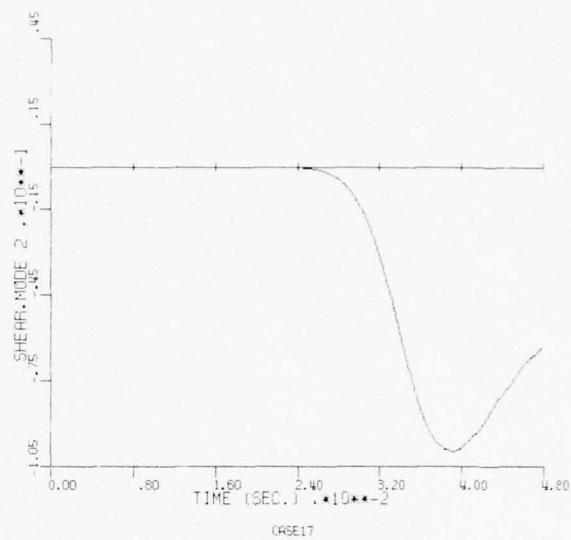
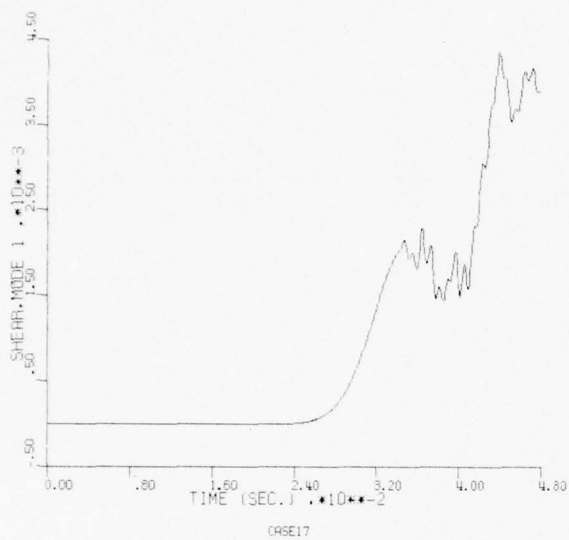


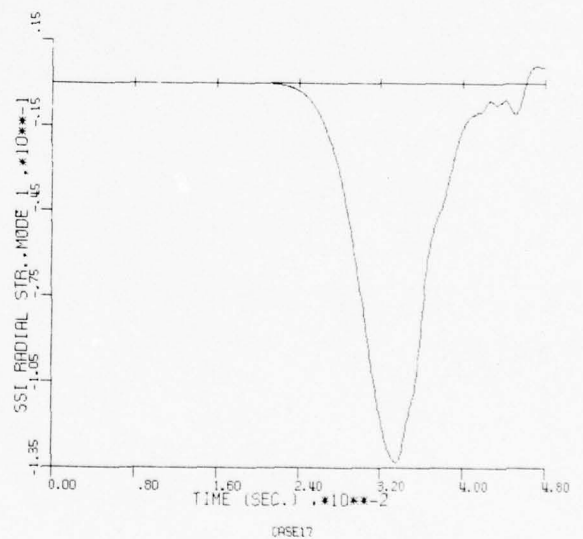
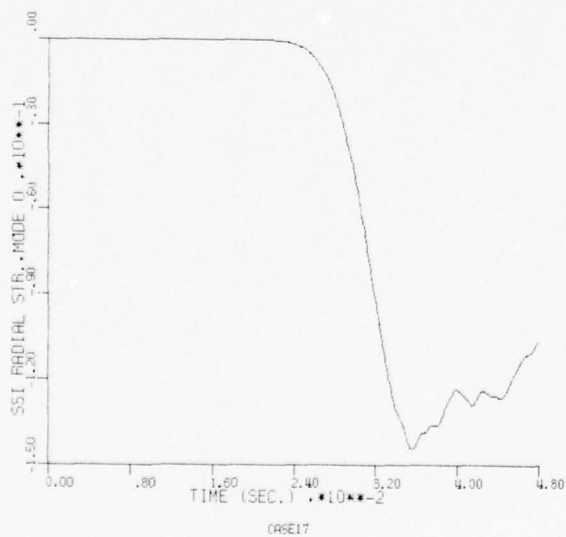
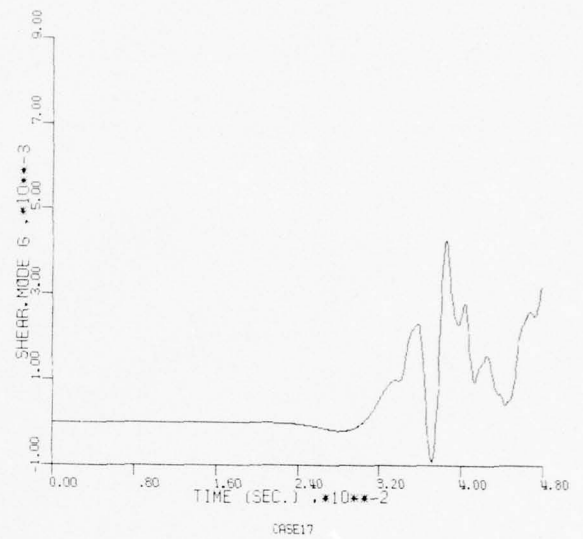
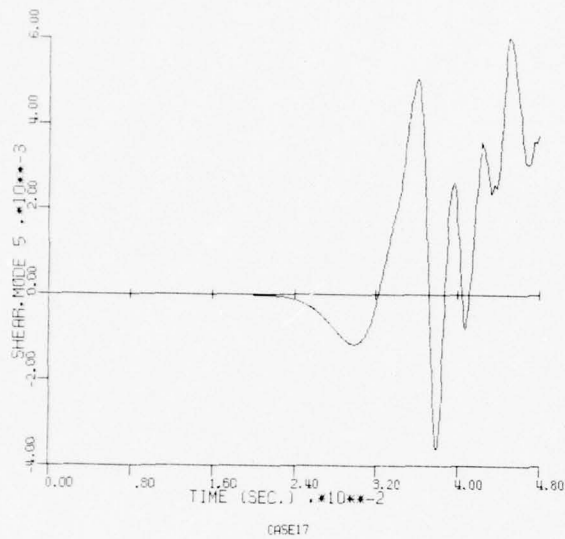




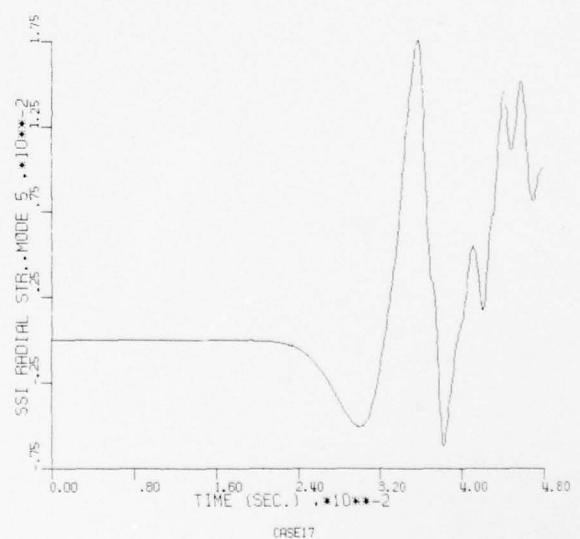
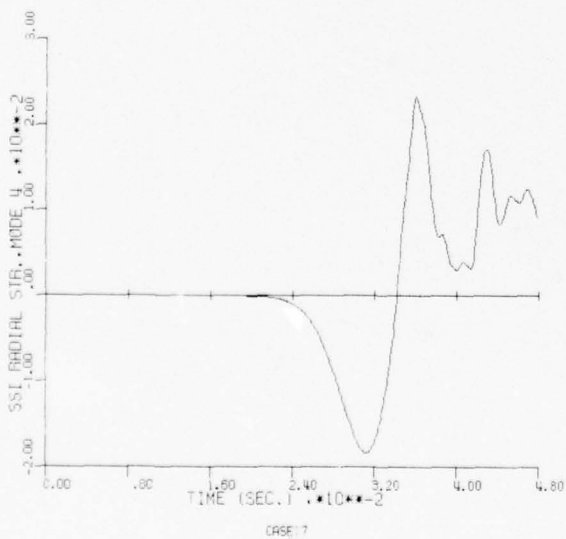
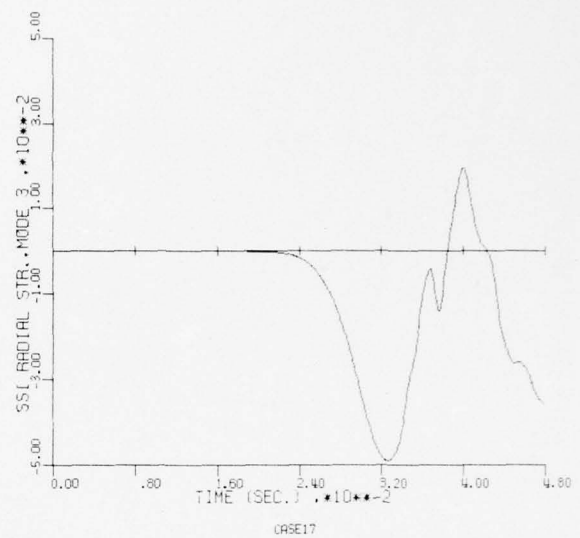
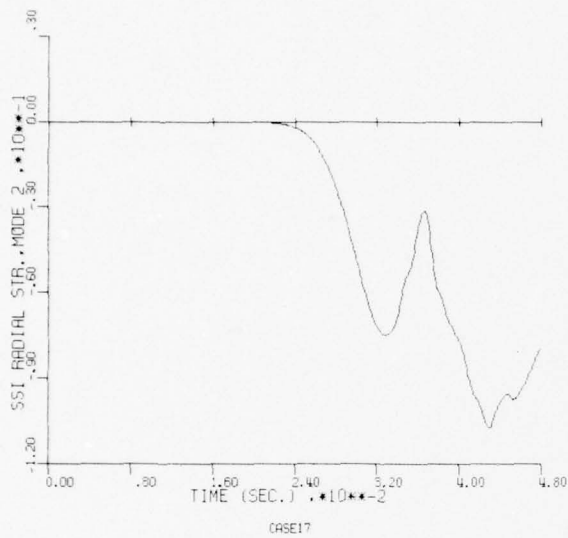


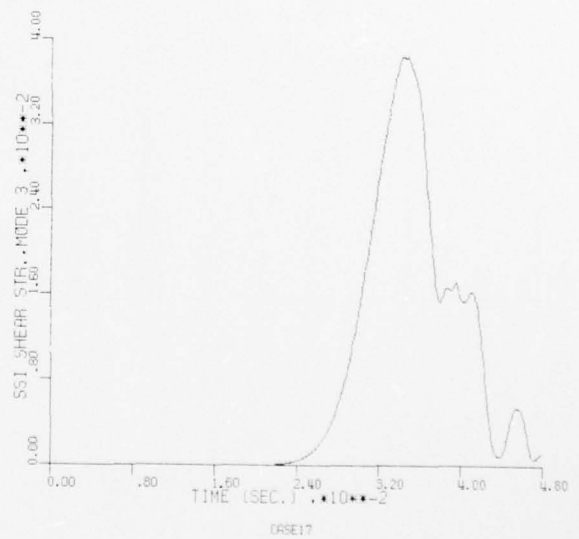
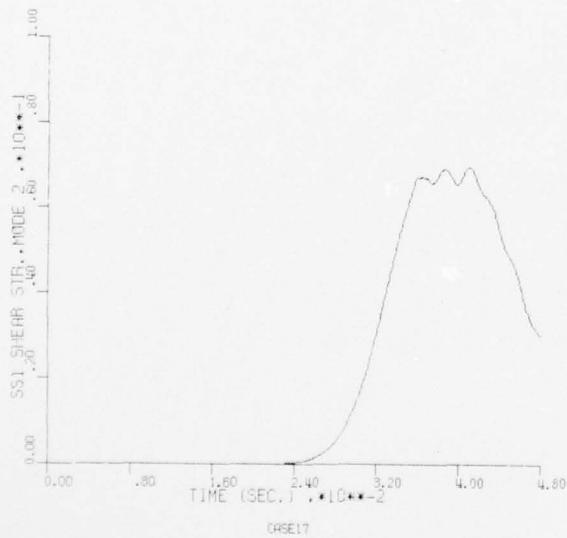
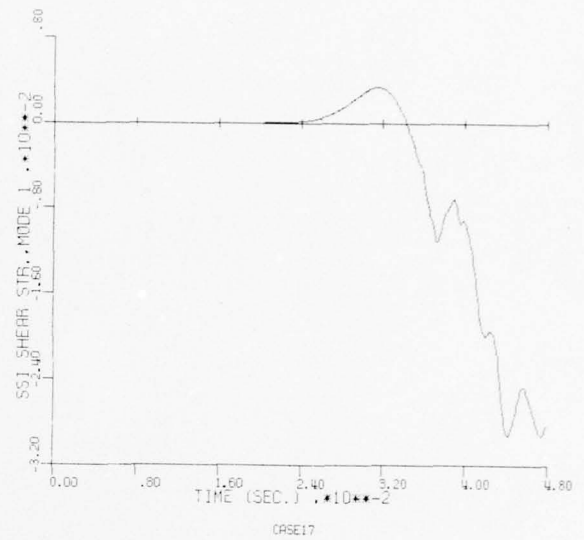
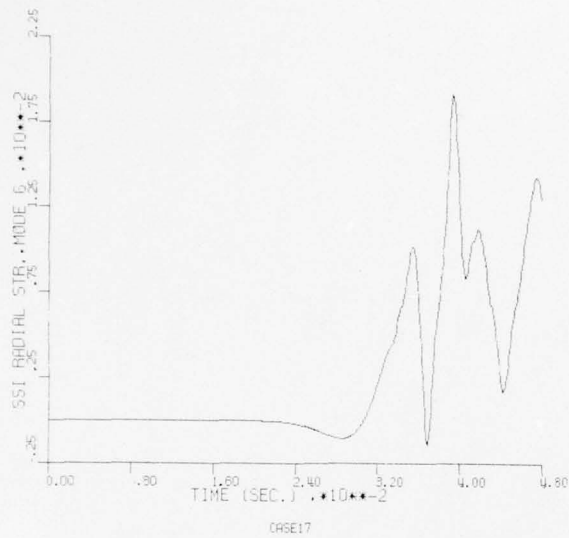


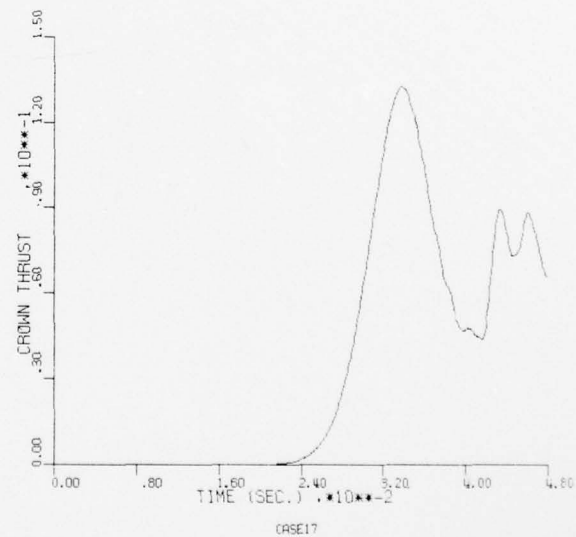
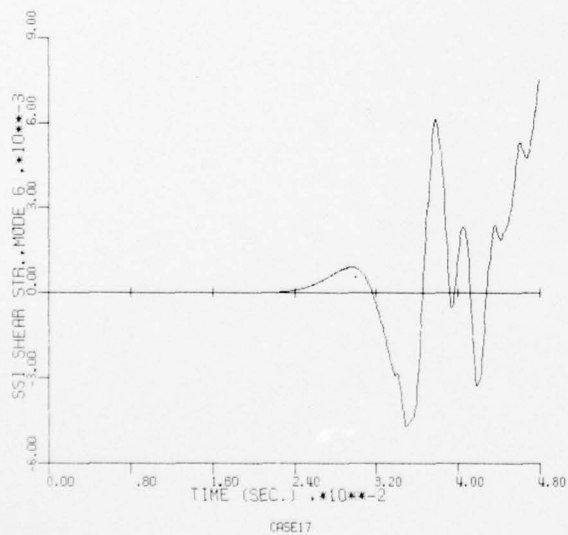
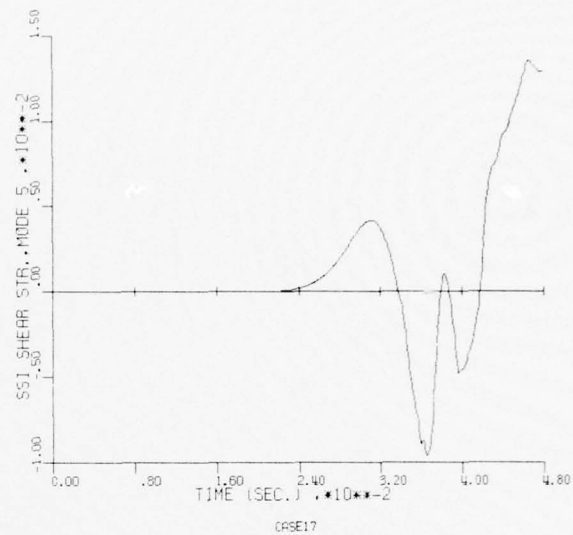
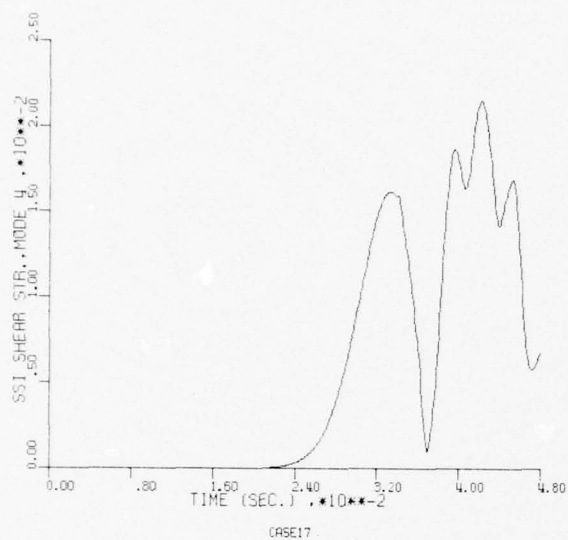


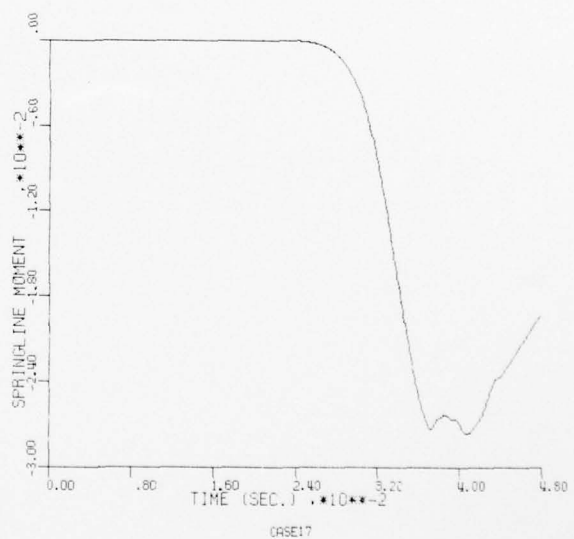
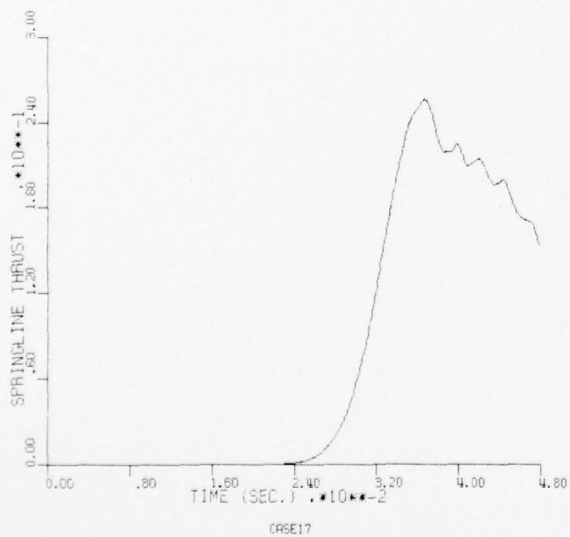
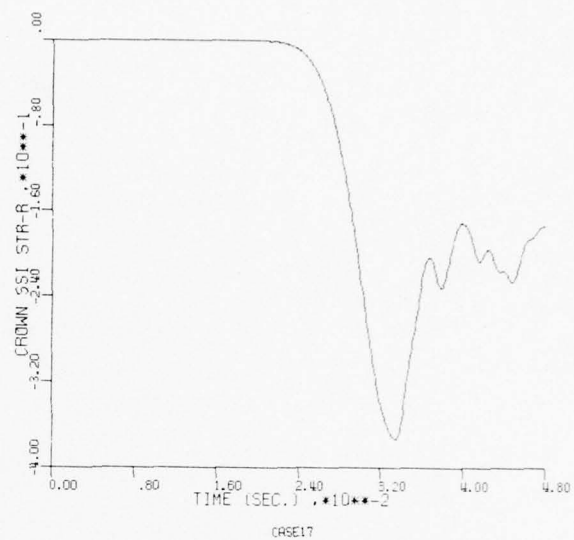
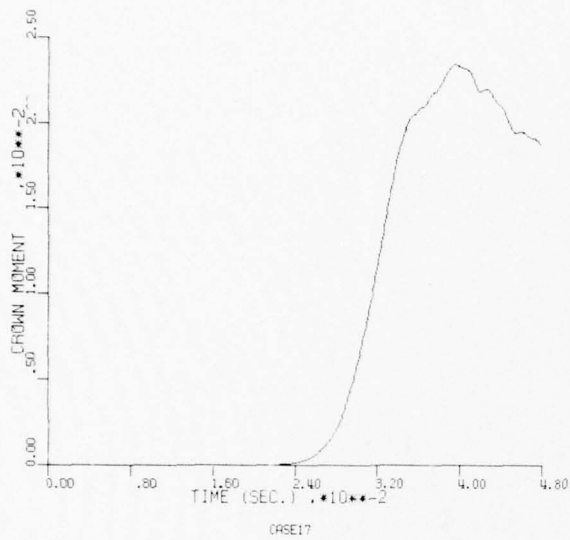


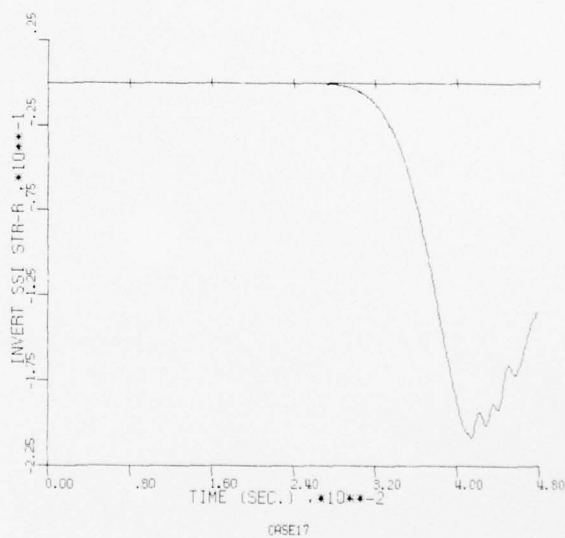
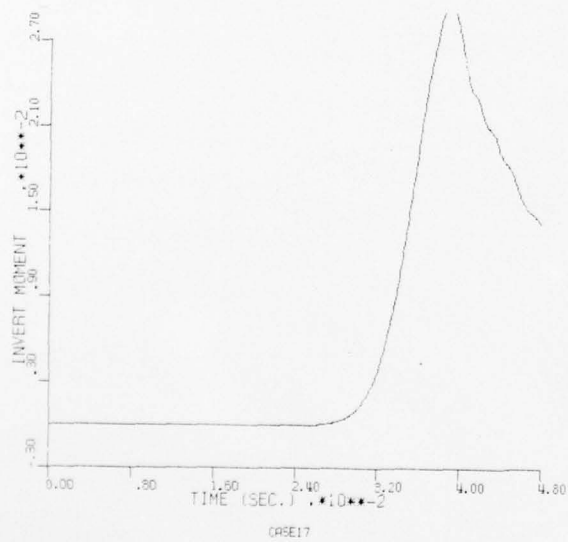
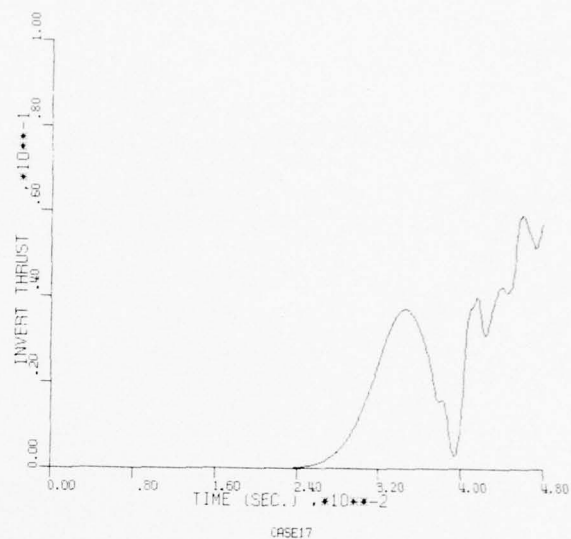
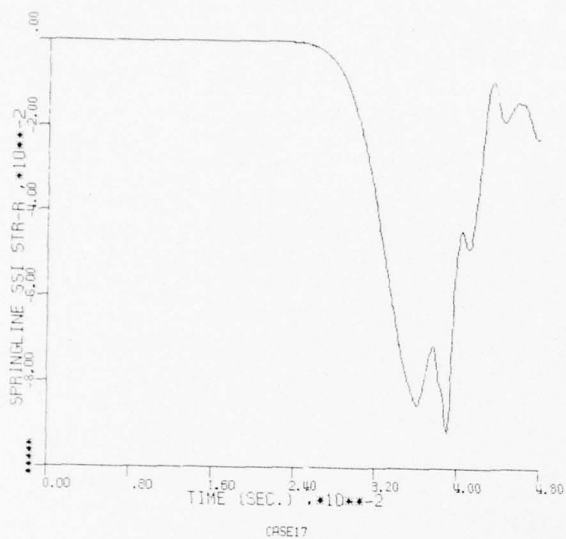














CASE 18

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MIN. VALUES

		T	M	V	SIR-R	SIR-T	TAU-RT
CR	1	0.000000	0.000000	-.014752	-.361633	-.140494	-.000000
	2	0.000000	0.000000	-.030169	-.343633	-.143347	0.000000
	3	0.000000	0.000000	-.053787	-.316850	-.122577	0.000000
	4	0.000000	0.000000	-.102532	-.299448	-.109520	0.000000
	5	0.000000	-.0001598	-.074014	-.274478	-.115858	-.007370
	6	0.000000	-.0020825	-.099497	-.234336	-.107443	-.004595
	7	0.000000	-.0058333	-.096264	-.203192	-.116530	-.011155
	8	0.000000	-.0100934	-.094208	-.193764	-.102677	-.007744
	9	0.000000	-.0153096	-.080007	-.148729	-.102832	-.011095
	10	0.000000	-.0201946	-.071132	-.143884	-.091614	-.013666
	11	0.000000	-.0246765	-.047102	-.140713	-.085257	-.029178
SPR	12	0.000000	-.0276694	-.026549	-.106956	-.089989	-.041930
	13	0.000000	-.0288537	0.000000	-.087287	-.085377	-.056787
	14	0.000000	-.0281446	-.000000	-.091063	-.079942	-.050681
	15	0.000000	-.0256686	-.000000	-.098999	-.099659	-.066920
	16	0.000000	-.0206820	-.000000	-.118272	-.088389	-.063218
	17	0.000000	-.0142328	-.000000	-.120744	-.100781	-.076568
	18	0.000000	-.0062771	-.000000	-.114773	-.091913	-.070418
	19	0.000000	-.000000	-.000000	-.149549	-.092287	-.082187
	20	0.000000	-.000000	-.000005	-.172623	-.069566	-.070213
	21	0.000000	-.000000	-.000049	-.205194	-.079561	-.073293
	22	0.000000	-.000000	-.000145	-.215147	-.076726	-.058573
	23	0.000000	-.000000	-.000156	-.223250	-.081486	-.045106
INV	24	0.000000	-.000000	-.000071	-.222050	-.082037	-.011650

MAX. VALUES

		T	M	V	SIR-R	SIR-T	TAU-RT
CR	1	.125462	.0238078	.000000	0.000000	0.000000	.028532
	2	.132037	.0224891	0.000000	0.000000	0.000000	.070206
	3	.145639	.0202015	0.000000	0.000000	0.000000	.092449
	4	.152461	.0156873	0.000000	0.000000	0.000000	.096975
	5	.177516	.0085629	0.000000	0.000000	0.000000	.102772
	6	.199149	.0049395	0.000000	0.000000	0.000000	.091498
	7	.214592	.000000	.000000	0.000000	0.000000	.096367
	8	.236578	.000000	.000035	0.000000	0.000000	.080296
	9	.254631	.000000	.002000	0.000000	0.000000	.075147
	10	.274963	.000000	.007115	0.000000	0.000000	.033144
	11	.279210	.000000	.017005	0.000000	0.000000	.016711
SPR	12	.274953	.000000	.026661	0.000000	0.000000	.000000
	13	.267630	.000000	.038179	0.000000	0.000000	.000000
	14	.254348	.000000	.050116	0.000000	0.000000	.000000
	15	.235008	.0000036	.062978	0.000000	0.000000	.000000
	16	.217040	.0000946	.085150	0.000000	0.000000	.000000
	17	.190406	.0005643	.100657	0.000000	0.000000	.000000
	18	.166386	.0016821	.112790	0.000000	0.000000	.000000
	19	.136049	.0038665	.110962	0.000000	0.000000	.000000
	20	.111441	.0101982	.105917	0.000000	0.000000	.000000
	21	.084653	.0167197	.088677	0.000000	0.000000	.000000
	22	.064868	.0223960	.068385	0.000000	0.000000	.000000
	23	.055876	.0262626	.042148	0.000000	0.000000	.000000
INV	24	.055819	.0282978	.015519	0.000000	0.000000	.005585

MIN-MAX MODAL AMPLITUDES -- CASE 18

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.49120E-02	-.11220E+00	-.26668E-01	-.65419E-02	-.32161E-02	-.14404E-02	
MAX	.16910E+00	.69832E-01	.10458E-03	.28363E-02	.41270E-02	.31319E-02	

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.90936E-03	-.95637E-04	0.	-.12133E-02	-.66110E-03	-.27478E-03	
MAX	.76138E-13	.14350E-03	.27411E-01	.47351E-02	.61244E-03	.19237E-03	

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.10583E-06	-.10313E+00	-.29457E-01	-.68775E-02	-.37396E-02	-.20312E-02	
MAX 0.	.46521E-02	0.	.82508E-02	.64540E-02	.36117E-02	.12549E-02	

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.15662E+00	-.12790E+00	-.10331E+00	-.49071E-01	-.20261E-01	-.93778E-02	-.15738E-02
MAX 0.	.20043E-01	0.	.24438E-01	.24438E-01	.21113E-01	.15217E-01	.12250E-01

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.31188E-01	0.	0.	-.50290E-02	0.	-.67310E-02	-.53221E-02
MAX 0.	.38327E-02	.81446E-01	.35897E-01	.35897E-01	.15947E-01	.13959E-01	.72031E-02

CASE 18

CROWN THRUST

SRSS	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
MIN.	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.
MAX.	1.347795	1.024848	1.229088	1.028027	0.983328	0.987502	0.999897	0.12546E+00	

CROWN MOMENT

SRSS	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
MIN.	-0.000909	-0.000957	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.
MAX.	0.000000	0.000006	1.102261	1.008214	1.001490	1.014880	1.016131	0.23808E-01	

CROWN SSI STR-9

SRSS	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
MIN.	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.
MAX.	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	

SPRINGLINE THRUST

SRSS	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
MIN.	0.000000	0.000000	-0.000000	-0.000000	-0.000000	-0.000000	-0.000000	-0.000000	0.
MAX.	0.615003	0.223500	1.000617	1.014268	1.003875	1.007923	1.002092	0.27495E+00	

# SPRINGLINE MOMENT

```

*****
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6
SRSS .045657 .002194 .000297 .000249 .000305 .000956
MIN. .032865 1.014251 .996621 .999112 .995719 .998272
MAX. .000000 0.000000 0.000000 .000000 .000000 0.000000
VARIABLE *****
INPUT .52765E-03
      -.27669E-01
      .36602E-40
  
```

# SPRINGLINE SSI STR-R

```

*****
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6
SRSS .092159 .002218 .002881 .012167 .009390 .004111
MIN. 1.464308 1.518789 .974035 .960581 .932837 .999182
MAX. 0.000000 0.000000 .001850 .005846 .005679 .005432
VARIABLE *****
INPUT .13119E-02
      -.10696E+00
      0.
  
```

# INVERT THRUST

```

*****
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6
SRSS .080653 .017250 .017782 .006521 .002721 .001829 .001392
MIN. 0.000000 -.000023 0.000000 -.000000 -.000000 -.000000 0.
MAX. 3.029373 2.654683 .749320 .957540 .977797 1.028998 1.014723
VARIABLE *****
INPUT .91516E-03
      .55819E-01
  
```

# INVERT MOMENT

```

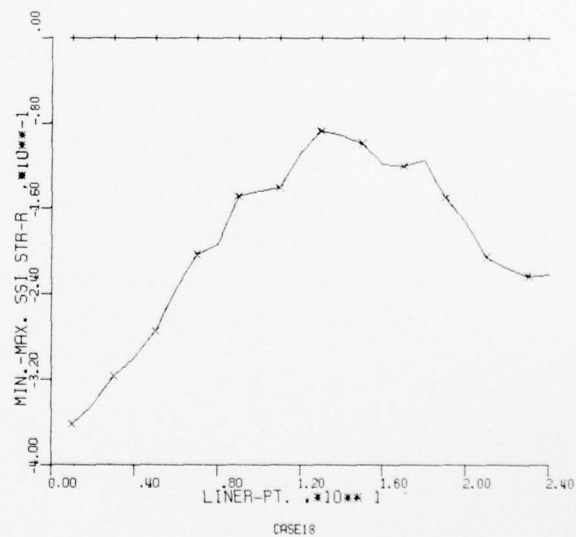
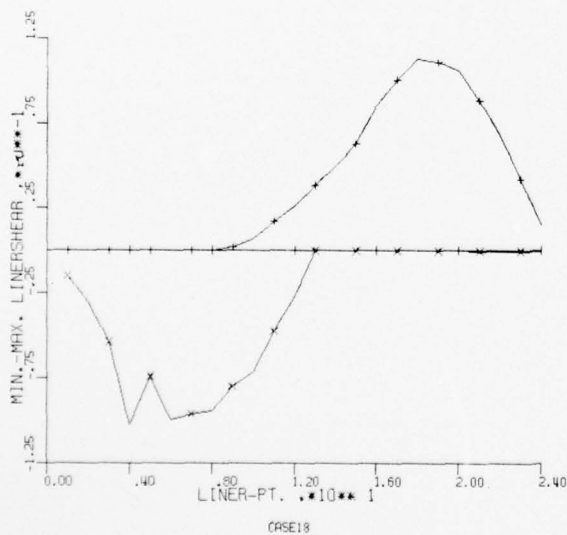
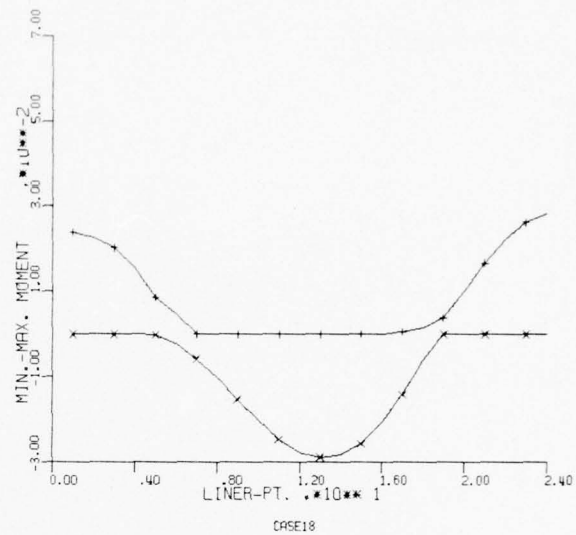
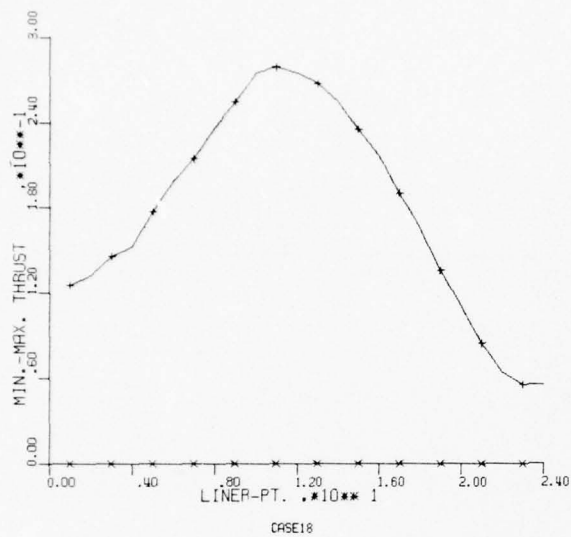
*****
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SRSS .037822 .037823 .012101 .001150 .001095 .000905 .000158
MIN. -.000909 -.000870 0.000000 -.000088 0.000000 -.000000 0.000000
MAX. .000000 0.000000 .931772 1.020935 1.019349 1.000916 1.001289
VARIABLE *****
INPUT .45936E-03
      -.21211E-21
      .28298E-01
  
```

# INVERT SSI STR-R

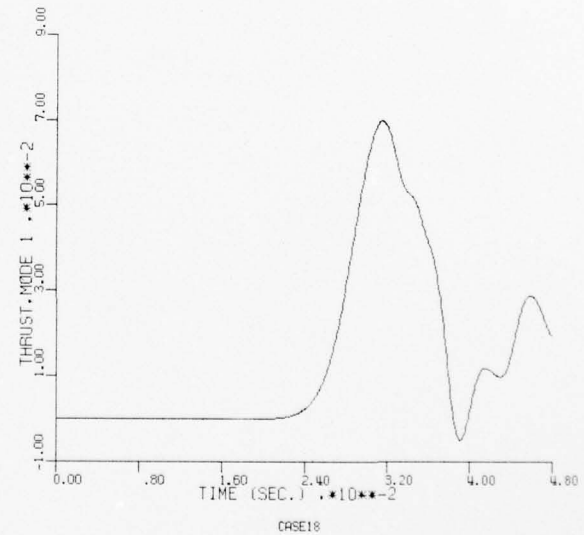
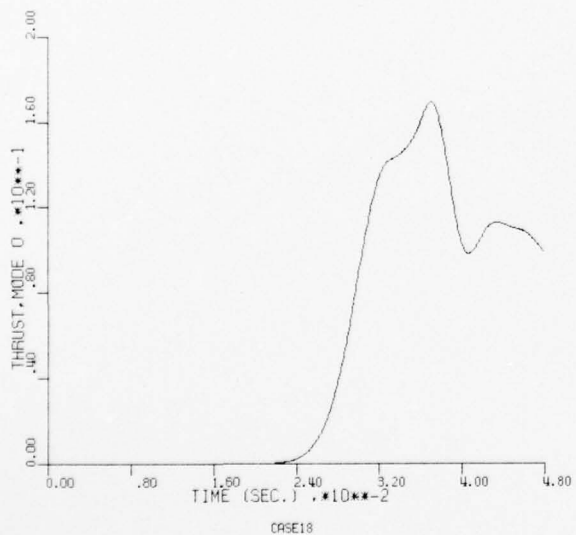
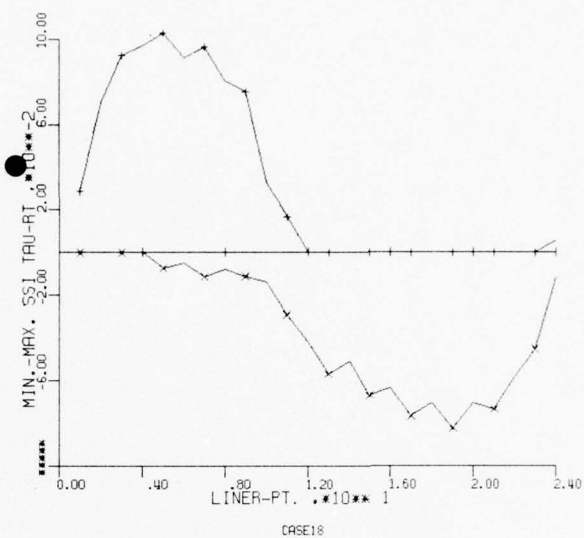
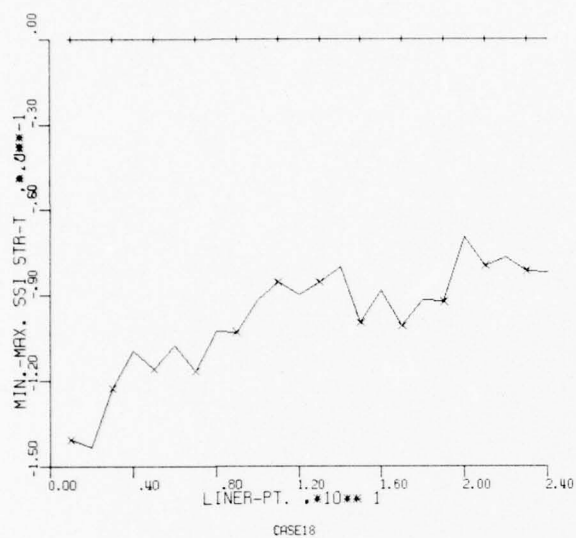
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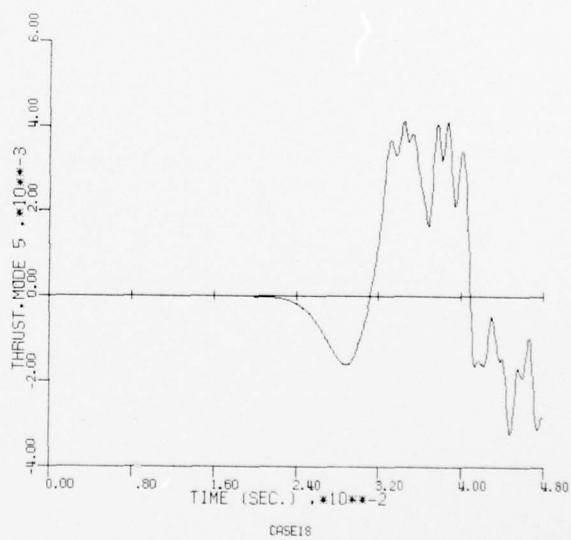
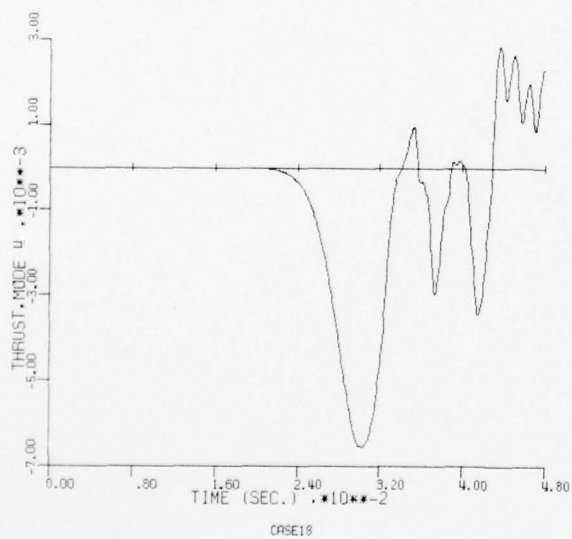
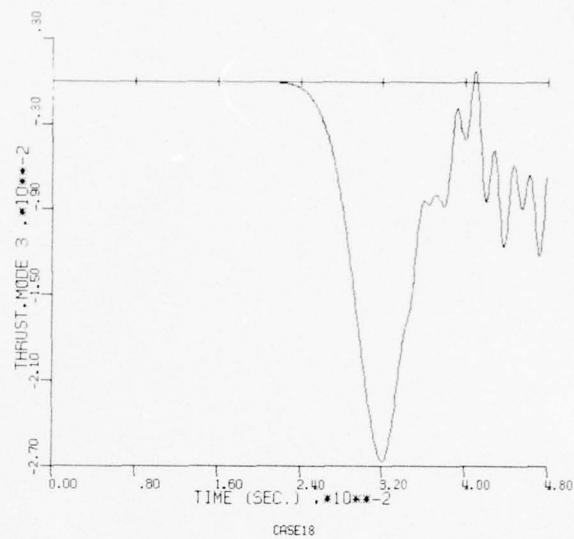
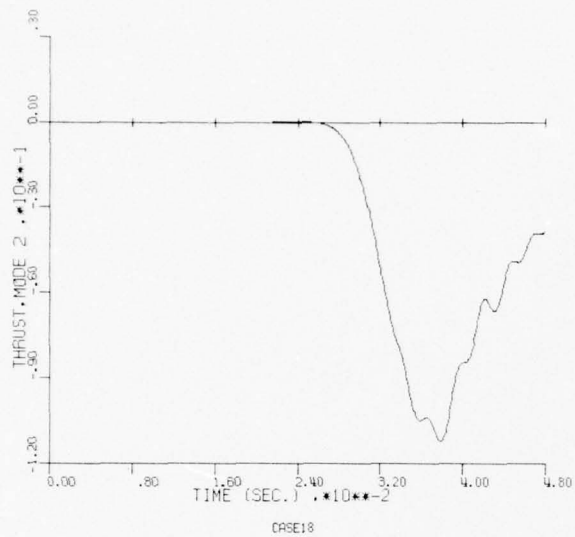
*****
MODE 0 MODLS 0-1 MODLS 0-2 MODLS 0-3 MODLS 0-4 MODLS 0-5 MODLS 0-6
SRSS .006641 .006990 .029818 .011750 .011433 .007333 .002107
MIN. .705322 .031074 1.047860 1.041150 1.031600 1.041768 1.022835
MAX. 0.000000 .030679 0.000000 .010259 0.000000 .000496 0.000000
VARIABLE *****
INPUT .33894E-02
      -.22205E+00
      0.
  
```

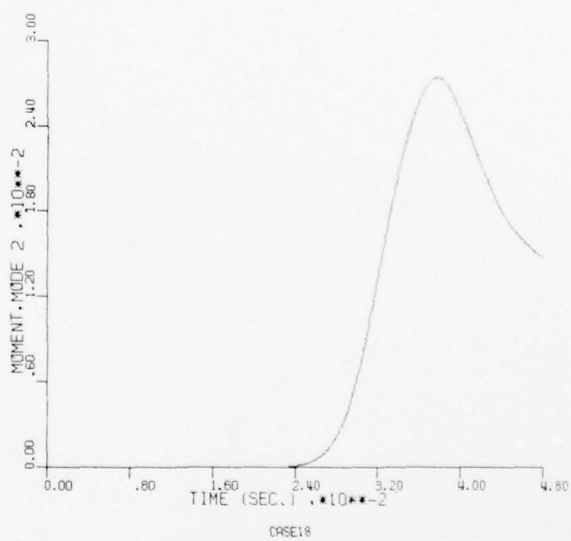
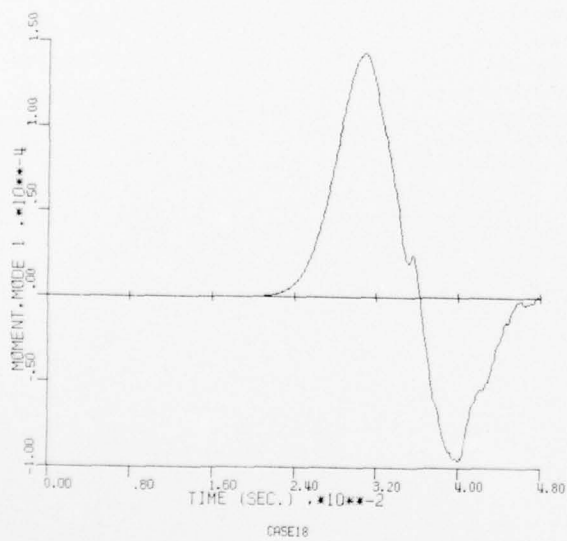
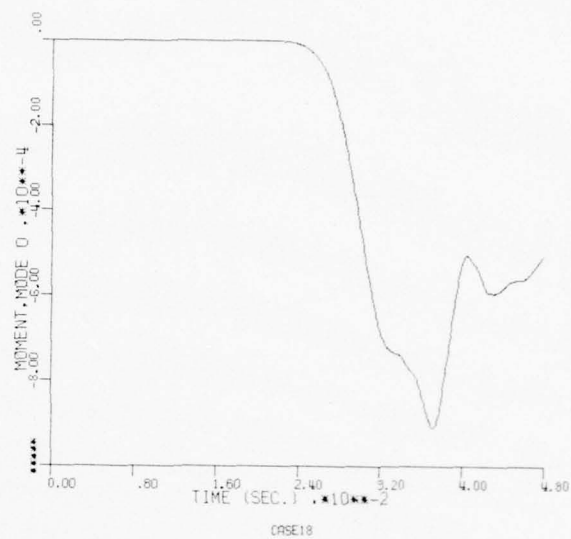
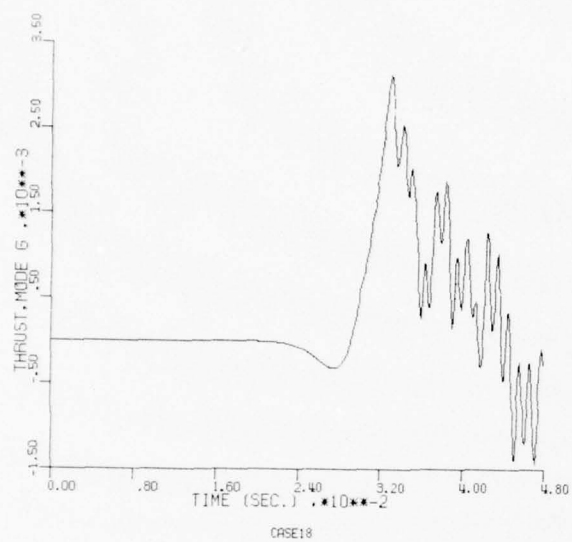


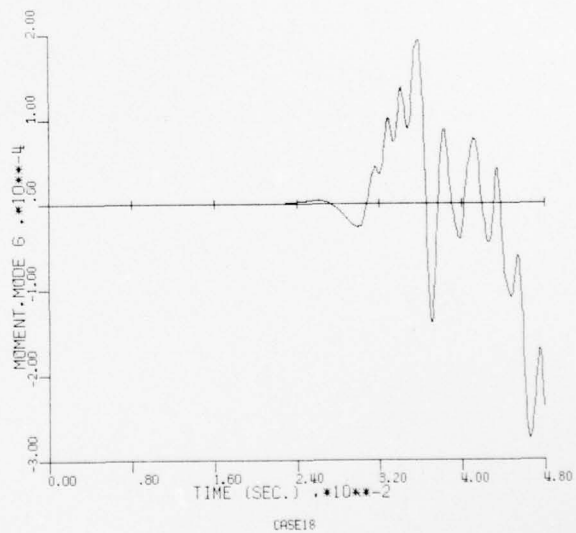
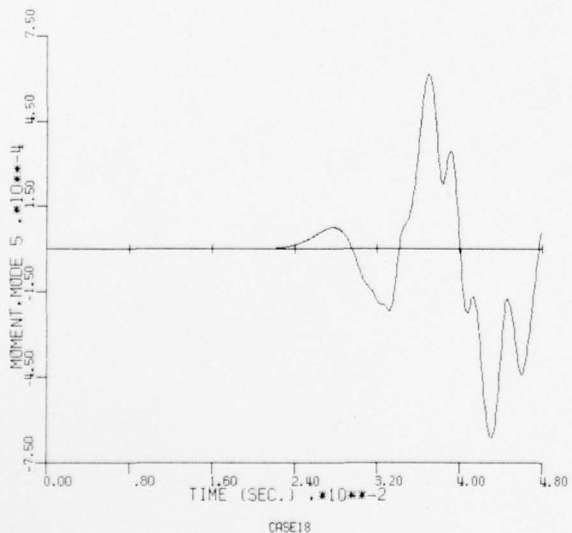
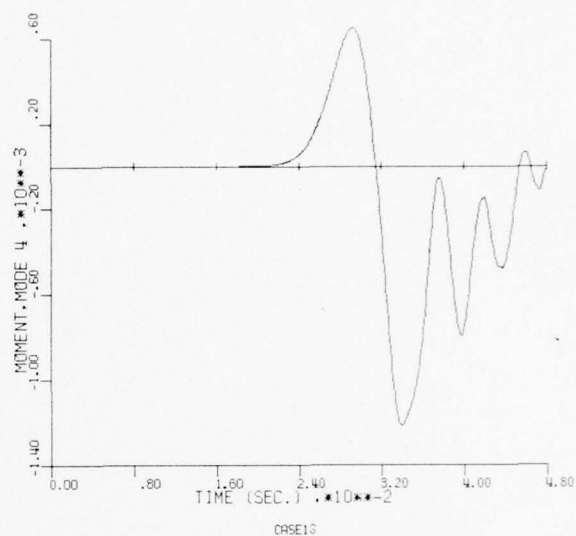
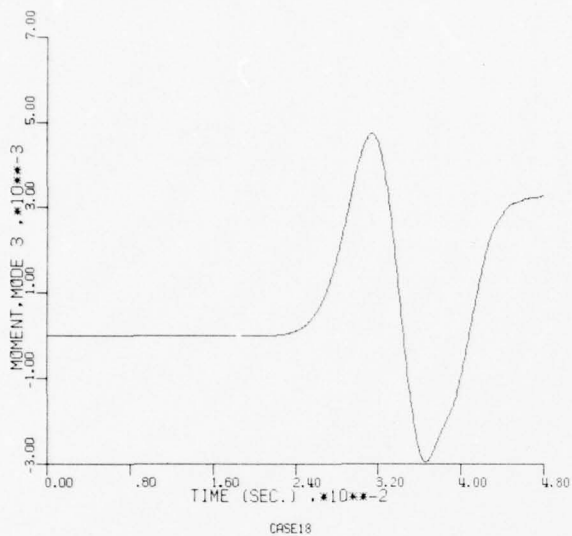


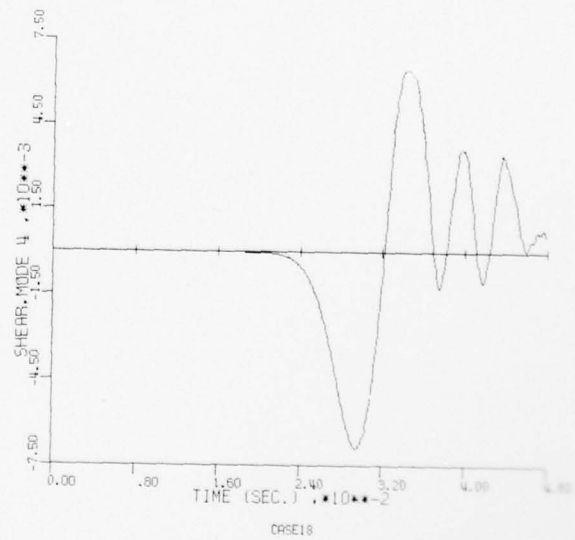
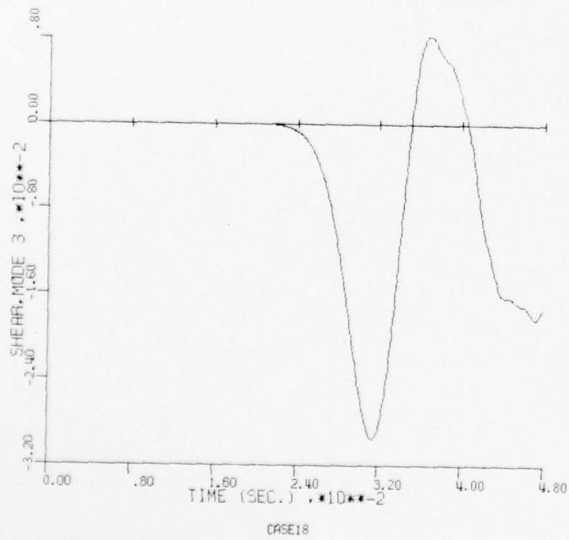
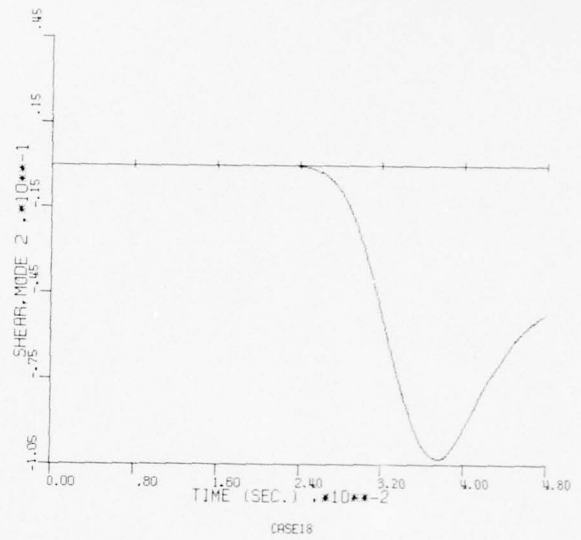
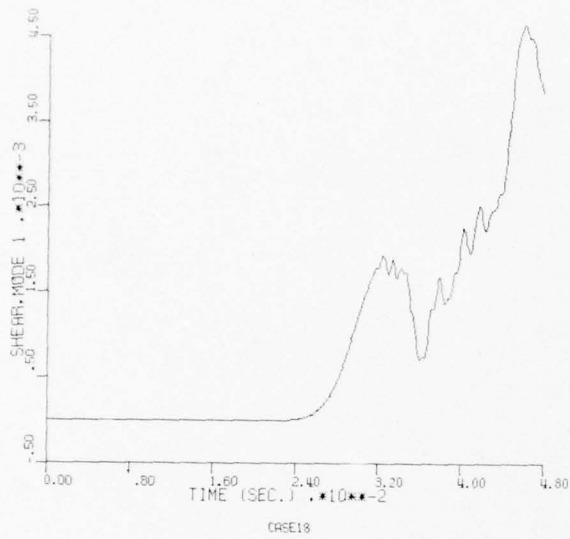














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IIT RESEARCH INST CHICAGO ILL

F/G 18/3

THEORETICAL INVESTIGATION OF LOADS ON BURIED STRUCTURES. VOLUME--ETC(U)

AUG 78 R R ROBINSON

F29601-76-C-0124

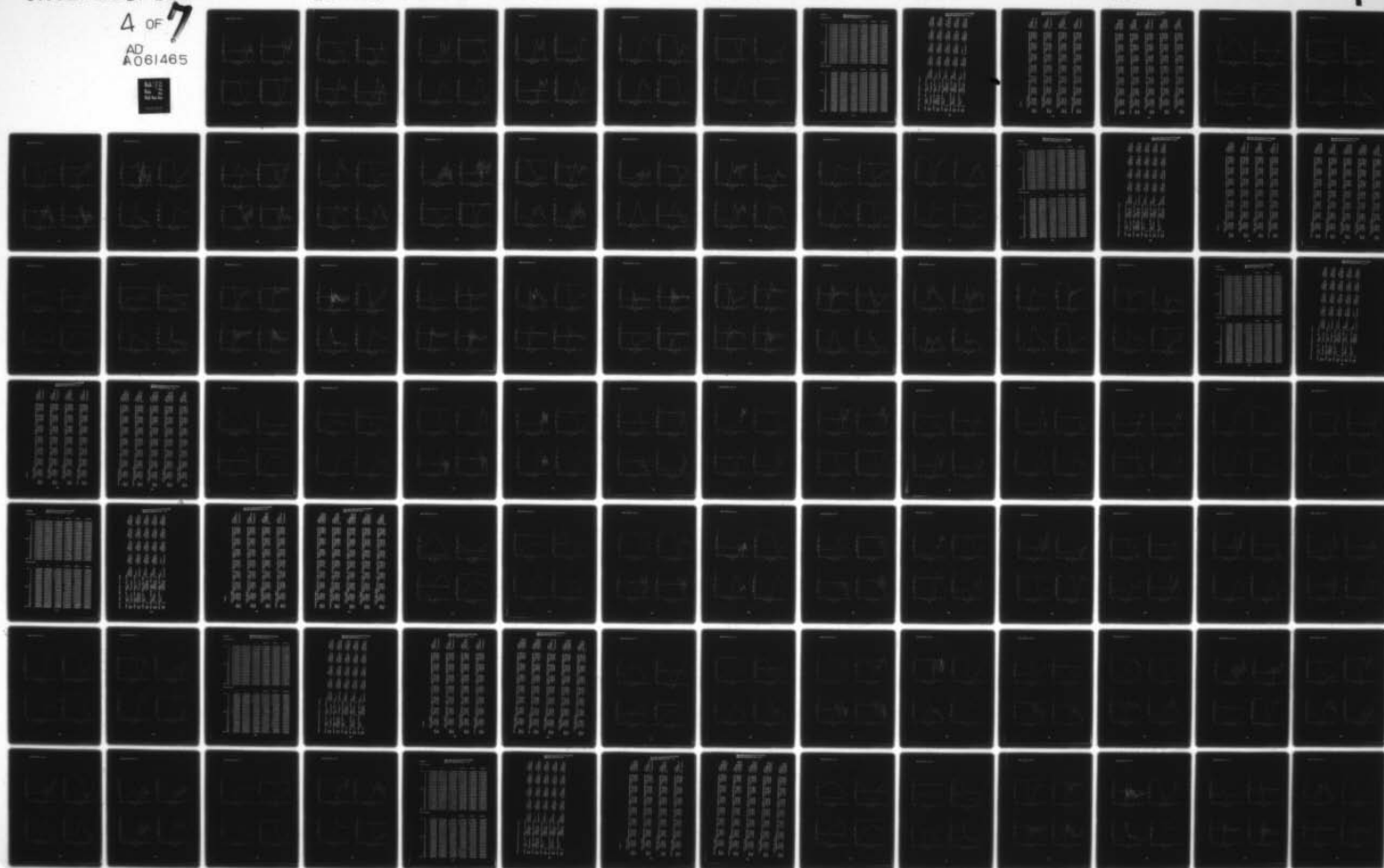
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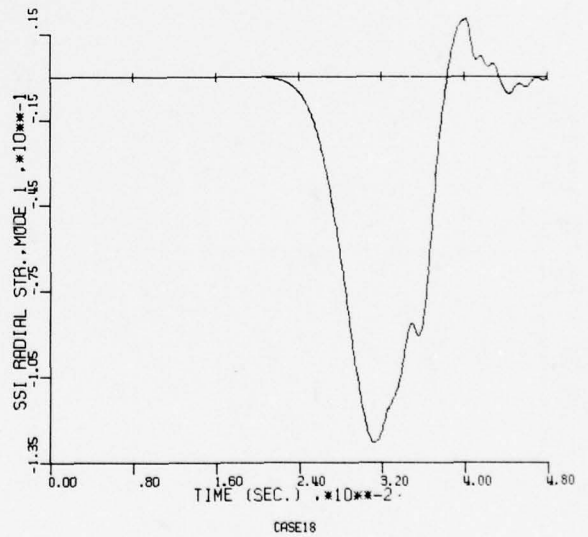
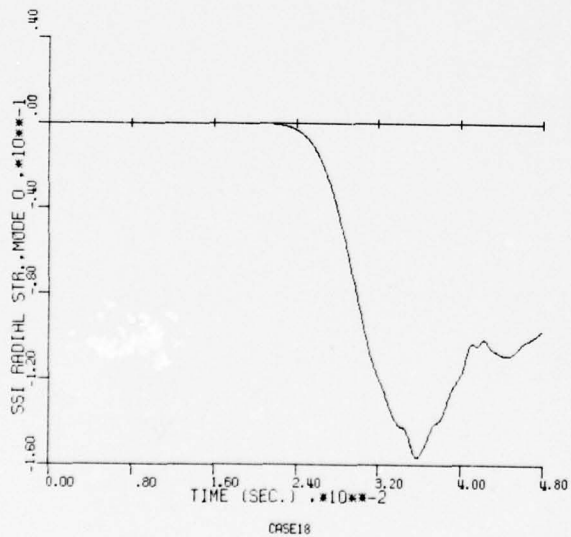
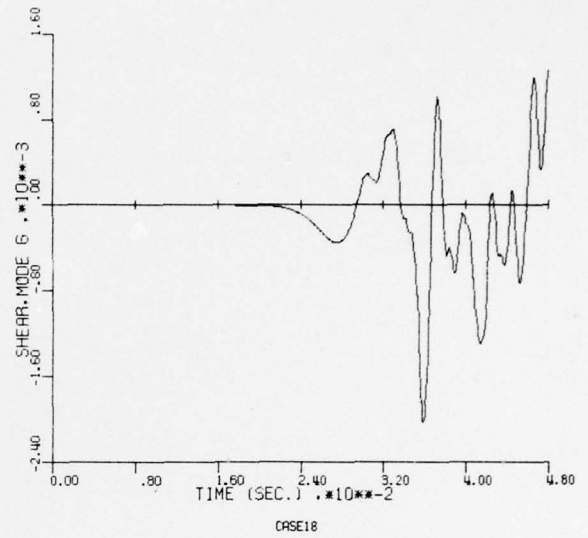
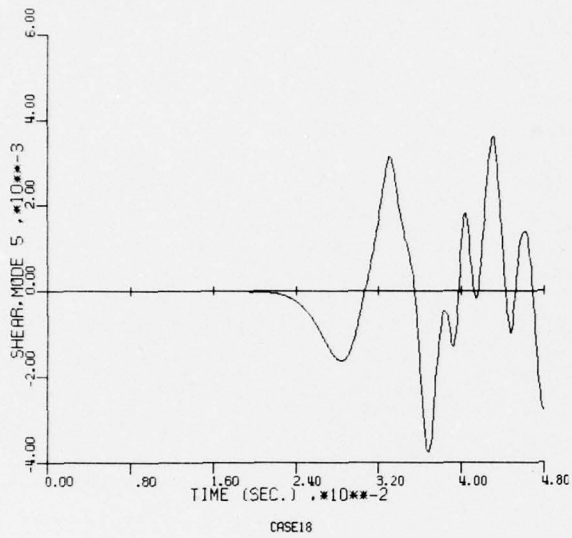
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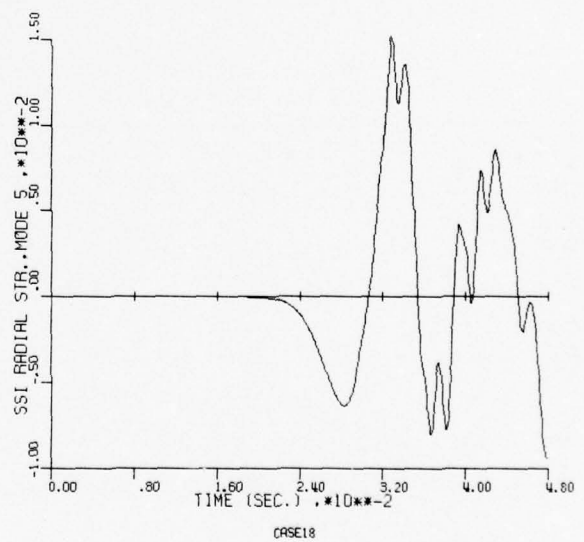
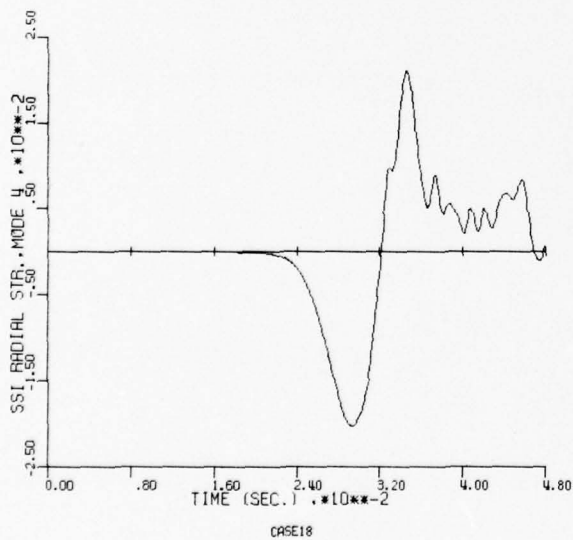
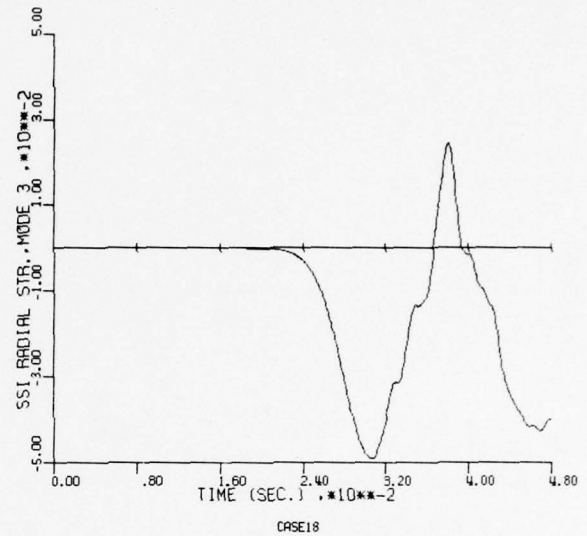
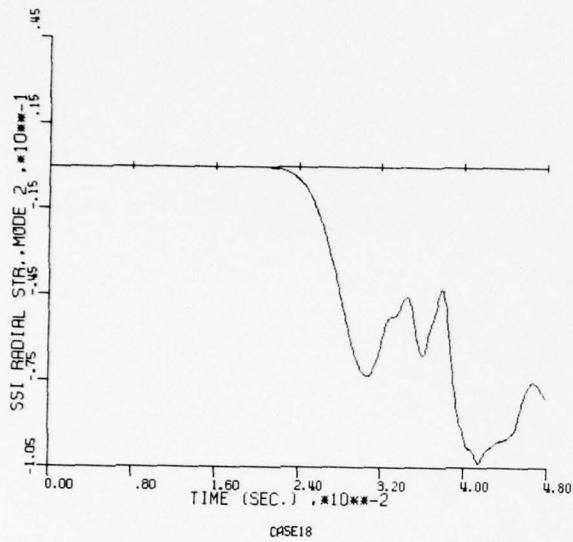
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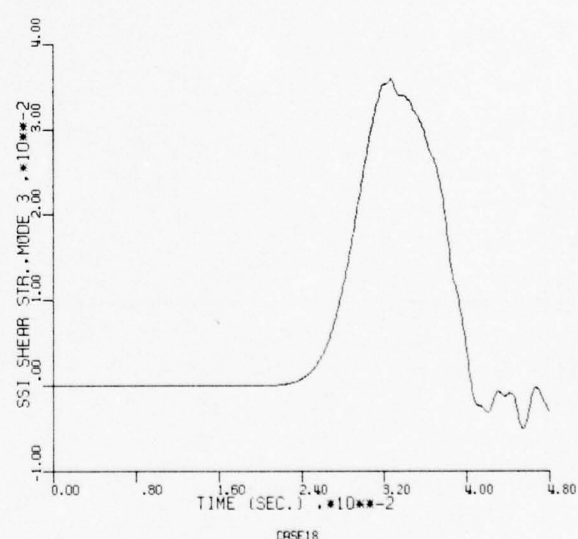
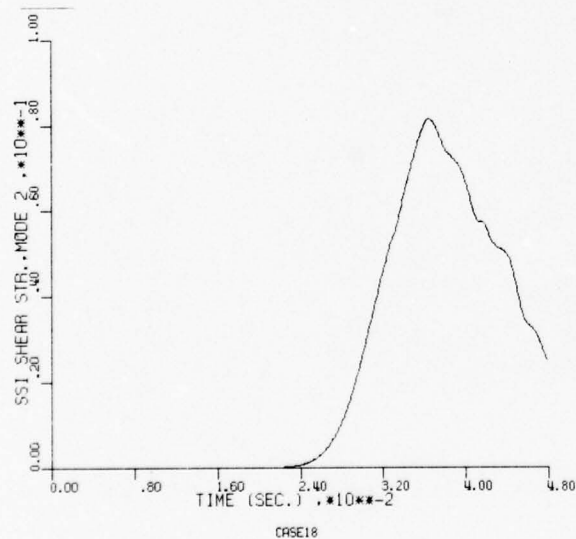
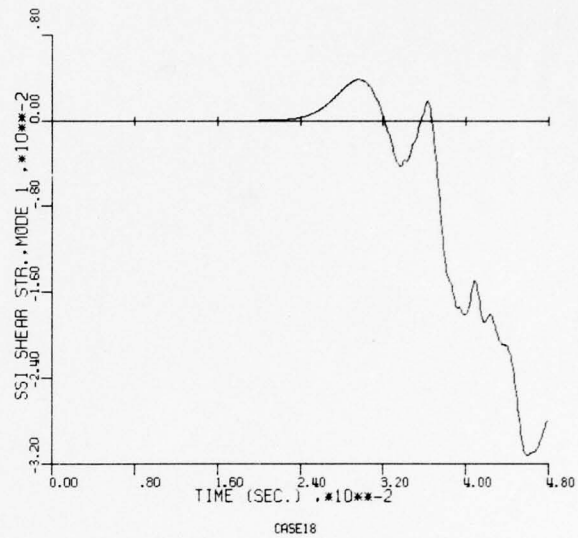
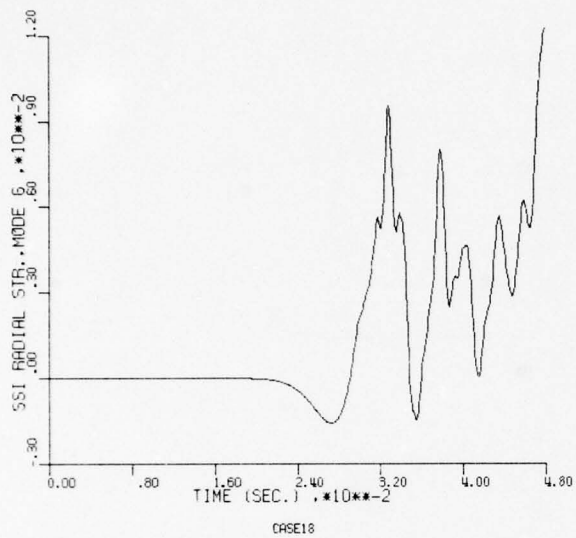
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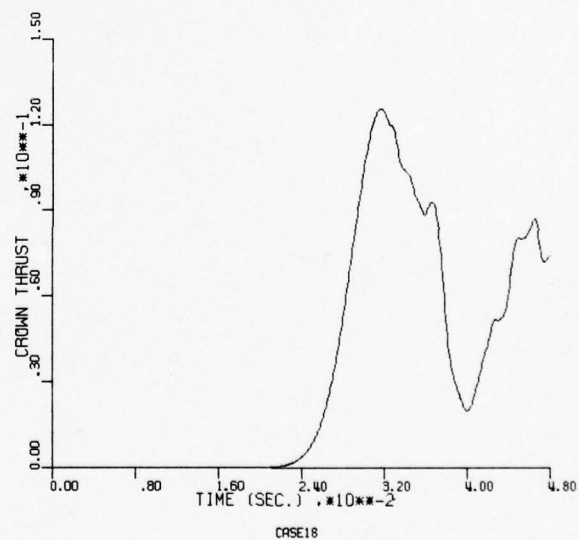
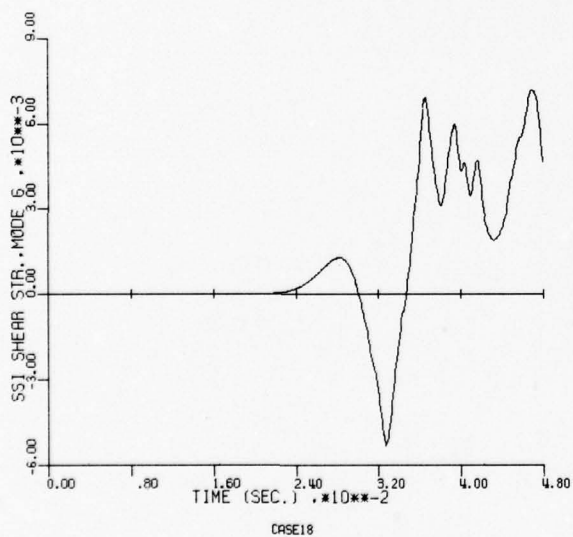
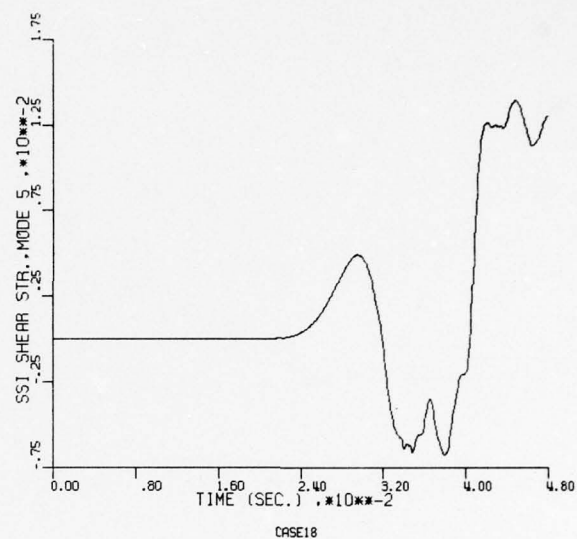
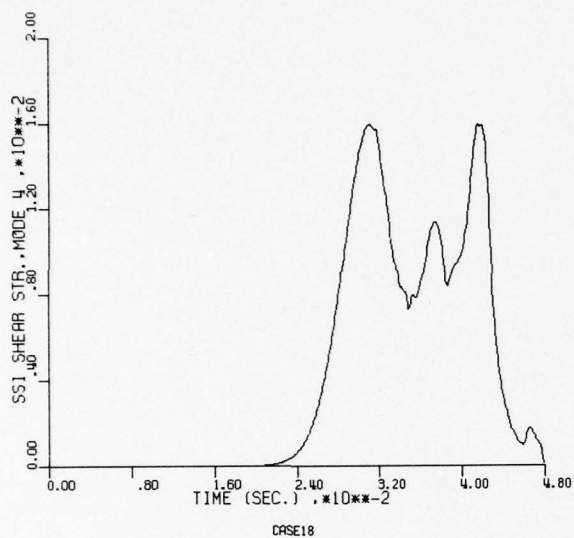
4 OF 7  
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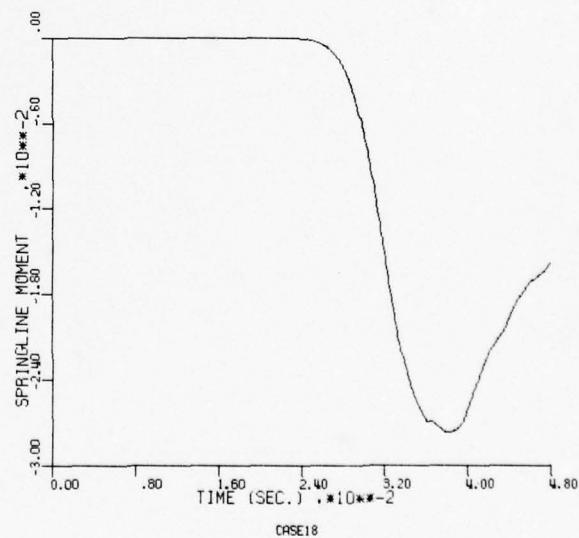
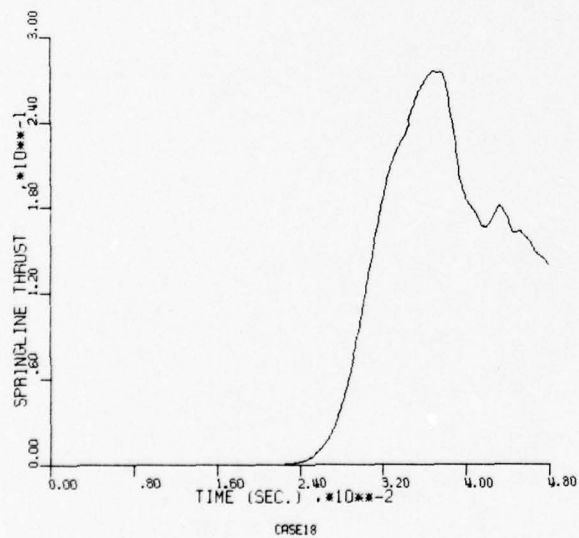
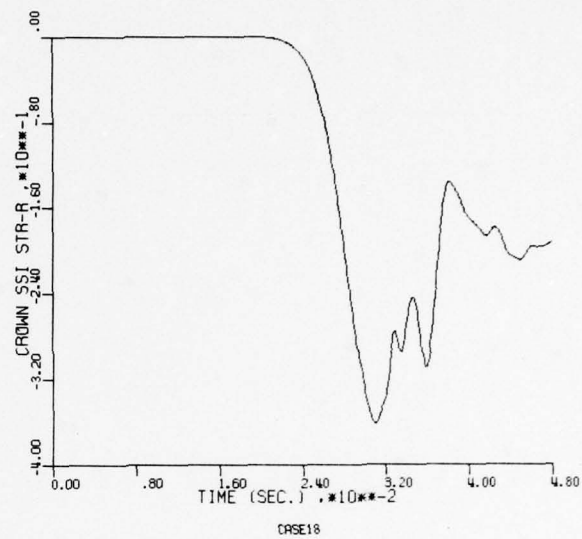
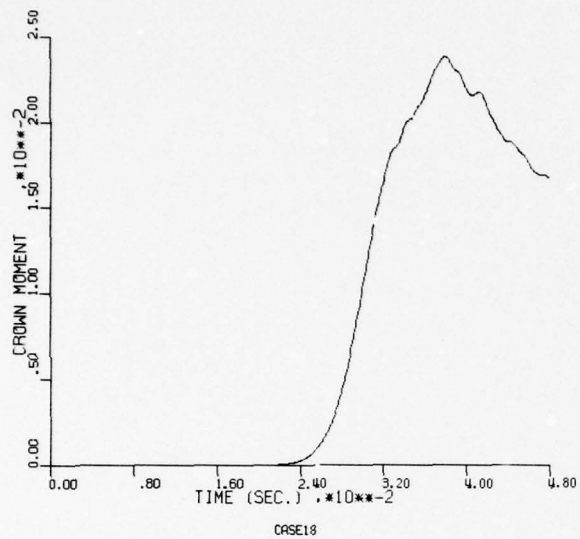


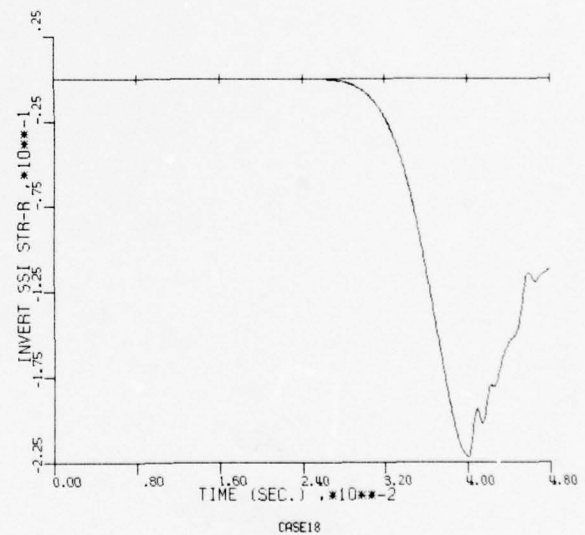
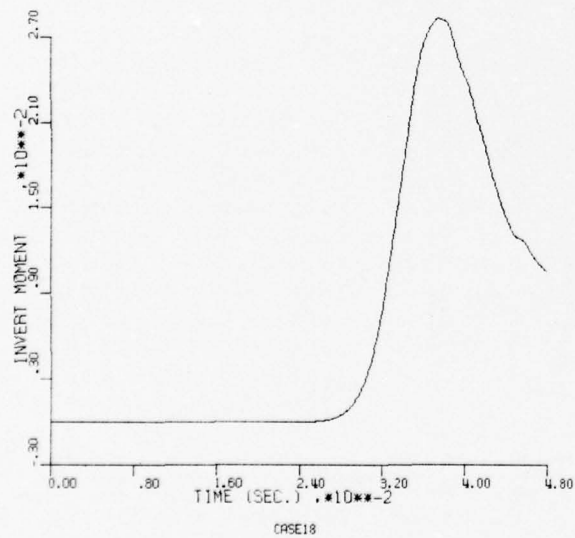
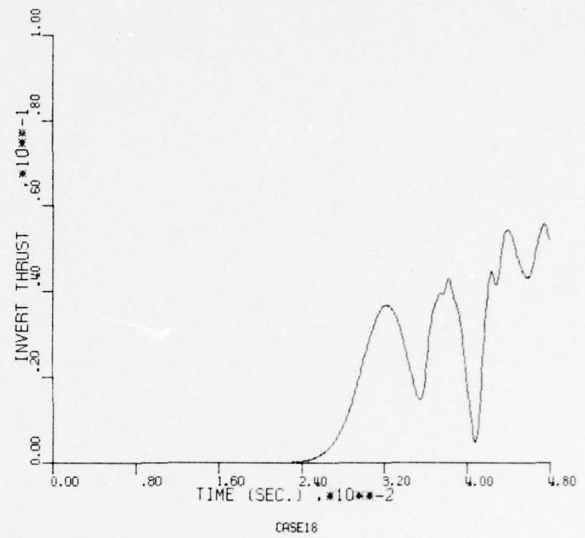
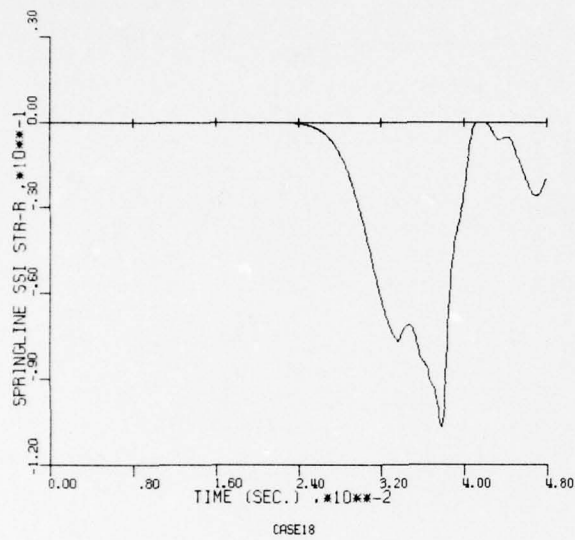












CASL19

MIN.VALUES

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		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.040260	-1.074806	-.397327	-.000000
	2	0.000000	0.000000	-.103015	-1.049274	-.398830	0.000000
	3	0.000000	0.000000	-.180618	-.957080	-.354794	0.000000
	4	0.000000	0.000000	-.237898	-.906261	-.344686	-.019585
	5	0.000000	-.0001115	-.283668	-.814127	-.353813	-.063680
	6	0.000000	-.0034673	-.312913	-.779675	-.342345	-.066997
	7	0.000000	-.0151539	-.314248	-.638564	-.355012	-.069811
	8	0.000000	-.0305371	-.305074	-.586858	-.321432	-.075625
	9	0.000000	-.0500034	-.255181	-.457220	-.325004	-.053473
	10	0.000000	-.0647882	-.214964	-.409038	-.281213	-.023783
	11	0.000000	-.0771885	-.133689	-.376165	-.268280	-.092858
SPR	12	0.000000	-.0854023	-.068071	-.294861	-.281019	-.124442
	13	0.000000	-.0680620	0.000000	-.281884	-.272251	-.179103
	14	0.000000	-.0852175	-.000000	-.278397	-.307637	-.192920
	15	0.000000	-.0763774	-.000000	-.345210	-.320541	-.240912
	16	0.000000	-.0610001	-.000000	-.381811	-.332104	-.253114
	17	0.000000	-.0415753	-.000000	-.470388	-.323325	-.267833
	18	0.000000	-.0176549	-.000000	-.500341	-.298056	-.262579
	19	0.000000	-.0000000	-.000000	-.584264	-.299441	-.284786
	20	0.000000	-.0000000	-.000002	-.568442	-.239191	-.244437
	21	0.000000	-.0000000	-.000015	-.710301	-.270210	-.259150
	22	0.000000	-.0000000	-.000045	-.725283	-.253150	-.192636
	23	0.000000	-.0000000	-.000049	-.754592	-.266765	-.162796
INV	24	0.000000	-.0000000	-.000024	-.749666	-.264505	-.038296

MAX.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.371378	.0734668	.000000	0.000000	0.000000	.059300
	2	.389952	.0692093	0.000000	0.000000	0.000000	.220552
	3	.435692	.0616001	0.000000	0.000000	0.000000	.284149
	4	.487700	.0493738	0.000000	0.000000	0.000000	.318511
	5	.552336	.0335726	0.000000	0.000000	0.000000	.323332
	6	.621035	.0142940	0.000000	0.000000	0.000000	.312267
	7	.683560	.0000000	.000000	0.000000	0.000000	.317324
	8	.763663	.0000000	.000011	0.000000	0.000000	.261967
	9	.825346	.0000000	.001120	0.000000	0.000000	.244521
	10	.890640	.0000000	.006961	0.000000	0.000000	.152235
	11	.913241	.0000000	.026203	0.000000	0.000000	.061295
SPR	12	.909886	.0000000	.051820	0.000000	0.000000	.006970
	13	.892491	.0000000	.095413	0.000000	0.000000	.013811
	14	.842512	.0000000	.152147	0.000000	0.000000	.009680
	15	.784869	.0000011	.204503	0.000000	0.000000	.000000
	16	.715617	.0000354	.262308	0.000000	0.000000	.000000
	17	.633311	.0003681	.305954	0.000000	0.000000	.000000
	18	.561851	.0021305	.341871	0.000000	0.000000	.000000
	19	.470375	.0106158	.334546	0.000000	0.000000	.000000
	20	.400599	.0306697	.317532	0.000000	0.000000	.000000
	21	.320565	.0508380	.263289	0.000000	0.000000	.000000
	22	.278070	.0672654	.204151	0.000000	0.000000	.000000
	23	.257271	.0785733	.126573	0.000000	0.000000	.000000
INV	24	.257884	.0846066	.045664	0.000000	0.000000	.019905

MIN-MAX MODAL AMPLITUDES -- CASE 19

LINER THRUST PLAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	0.	0.	-.34325E+00	-.66758E-01	-.14754E-01	-.75186E-02
	.56292E+00	.19964E+00	.32976E-04	.24499E-01	.59857E-02	.87210E-02
						MODE 6
						-.69451E-02
						.25864E-02
LINER MOMENT PLAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	-.27496E-02	0.	0.	-.69222E-02	-.38494E-02	-.23781E-02
	.23947E-13	.46962E-03	.83833E-01	.97417E-02	.94188E-03	.52163E-03
						MODE 6
						-.13464E-02
						.30159E-03
LINER SHEAR PLAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	0.	-.29439E-07	-.32064E+00	-.64778E-01	-.11770E-01	-.20322E-02
	0.	.13893E-01	0.	.19565E-01	.22192E-01	.18654E-01
						MODE 6
						-.50716E-02
						.91789E-02
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	-.52426E+00	-.36284E+00	-.33549E+00	-.12542E+00	-.38936E-01	-.91738E-02
	0.	.31208E-01	0.	.29125E-01	.66479E-01	.37126E-01
						MODE 6
						-.15011E-01
						.37744E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	0.	-.10171E+00	0.	-.60241E-01	0.	-.20866E-01
	0.	.68119E-02	.29142E+00	.10887E+00	.41053E-01	.29145E-01
						MODE 6
						-.60917E-02
						.26335E-01



CASE 19

CROWN THRUST  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .016996 .021597 .002546 .002771 .001169 .000687 .000547  
MIN. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. 1.515757 1.800872 1.196116 1.019952 .988421 .996446 1.001530  
INPUT  
VARIABLE  
.64692E-02  
0.  
.37138E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .043509 .043485 .000724 .001209 .001321 .001157 .000447  
MIN. -.002750 -.002558 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. .000000 .000000 1.096586 1.026645 1.013337 1.014849 1.006237  
INPUT  
VARIABLE  
.13858E-02  
0.  
.73467E-01

CROWN SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .014817 .015044 .000494 .002236 .003119 .003201 .001076  
MIN. .487775 .703105 .690493 .995575 1.009202 1.003026 .997755  
MAX. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.16903E-01  
-.10748E+01  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .008037 .007900 .000707 .000687 .000037 .000111 .000048  
MIN. 0.000000 0.000000 -.000000 -.000000 -.000000 -.000000 0.000000  
MAX. .618670 .623709 .997661 1.003124 .998002 .999465 1.003394  
INPUT  
VARIABLE  
.14319E-01  
0.  
.90989E+00



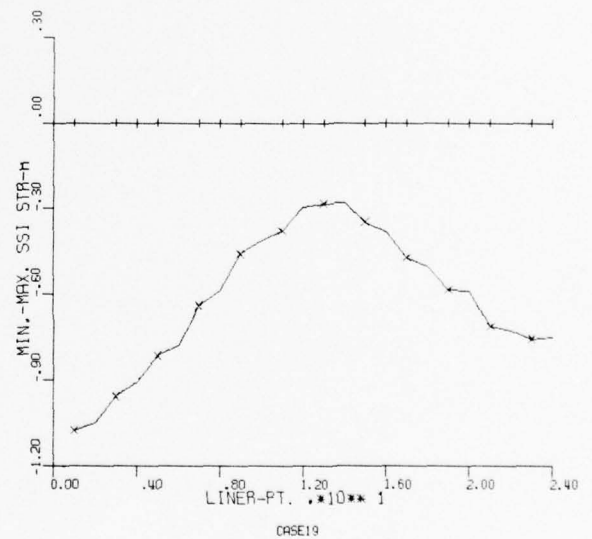
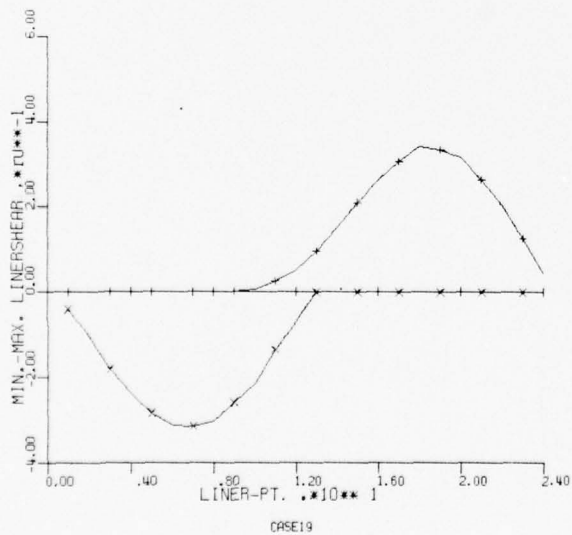
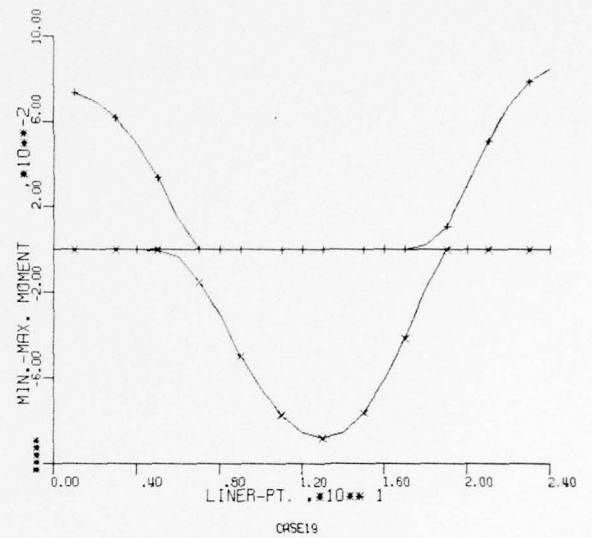
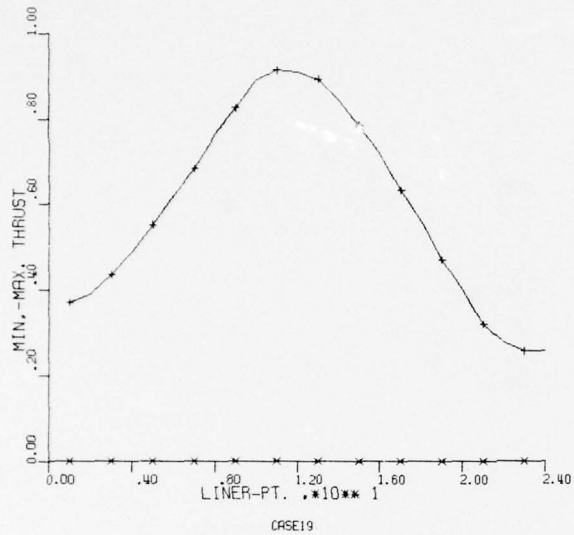
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0  
SRSS .037382  
MIN. .032196  
MAX. .000000  
MODES 0-1  
MODAL HISTORY/INPUT  
MODES 0-2  
MODES 0-3  
MODES 0-4  
MODES 0-5  
MODES 0-6  
VARIABLE  
INPUT  
VARIABLE  
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-.85402E-01  
.36047E-40

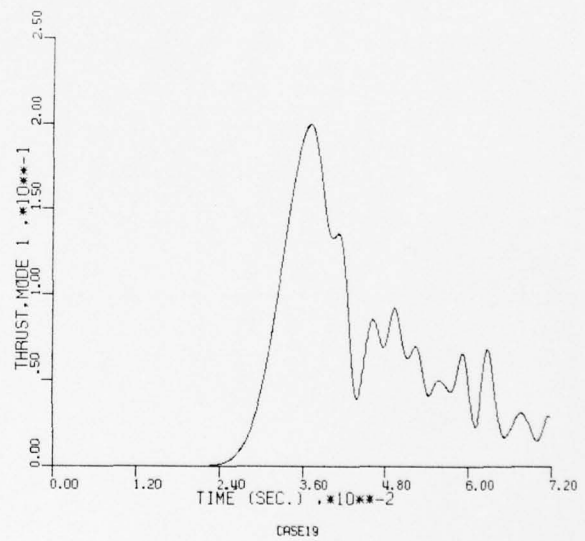
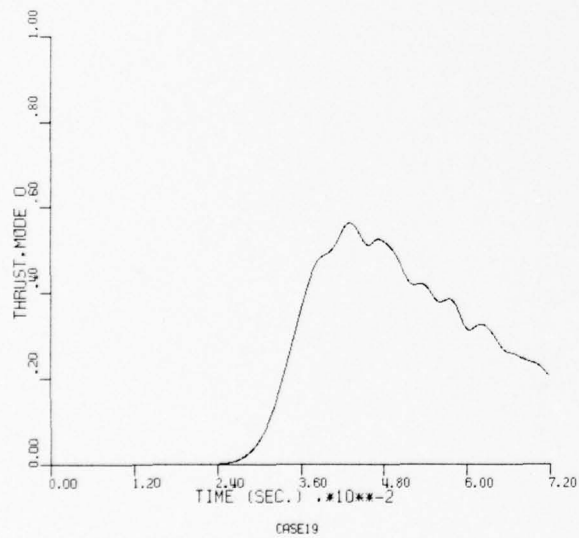
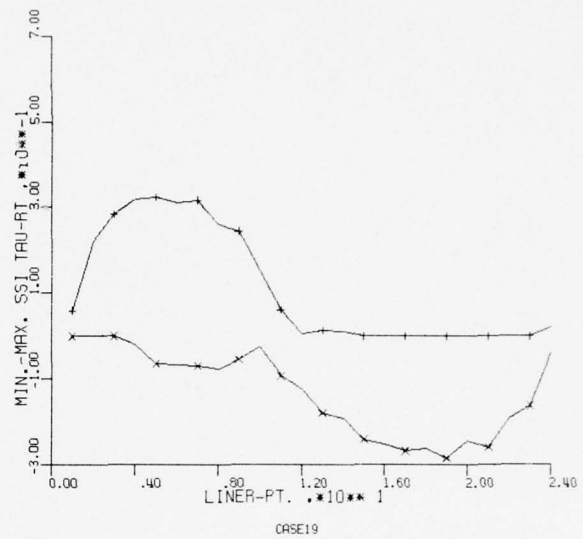
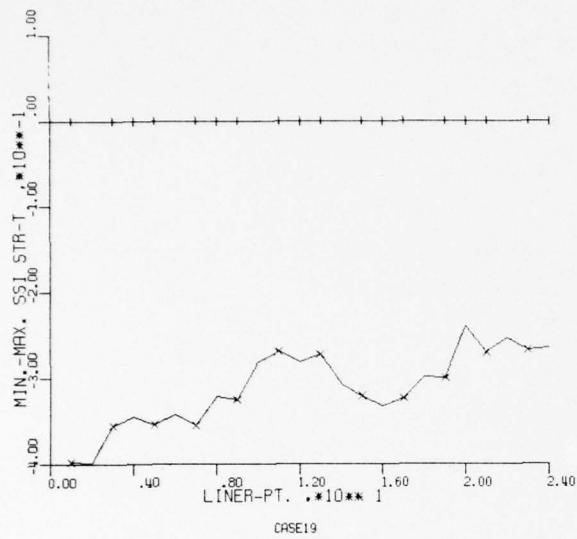
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0  
SRSS .069103  
MIN. 1.778004  
MAX. 0.000000  
MODES 0-1  
MODAL HISTORY/INPUT  
MODES 0-2  
MODES 0-3  
MODES 0-4  
MODES 0-5  
MODES 0-6  
VARIABLE  
INPUT  
VARIABLE  
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-.29486E+00  
0.

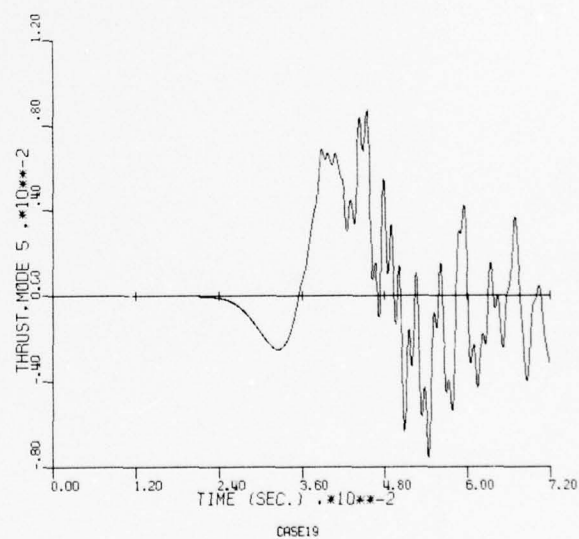
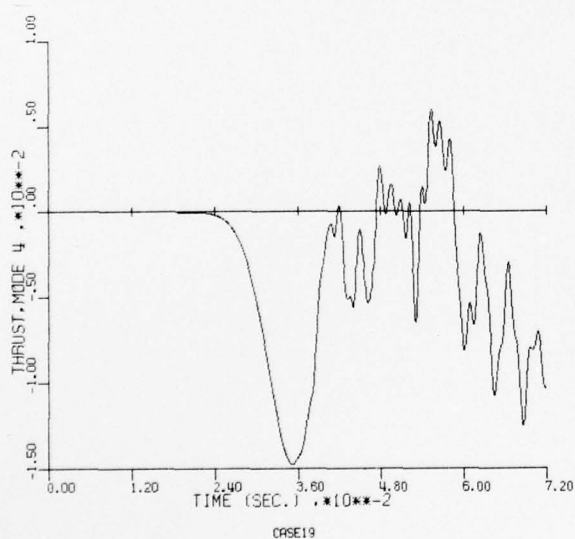
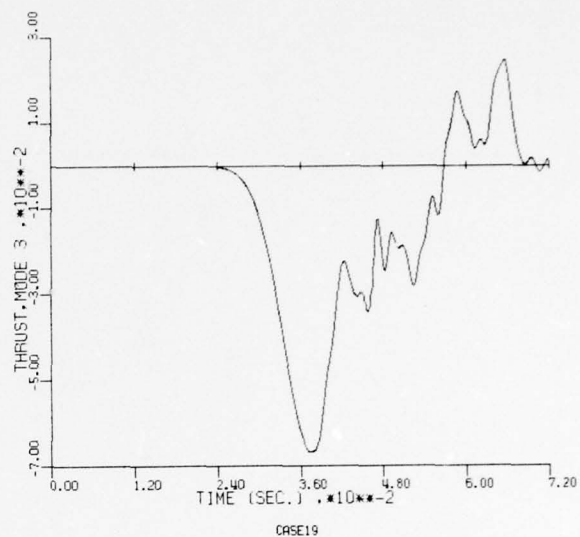
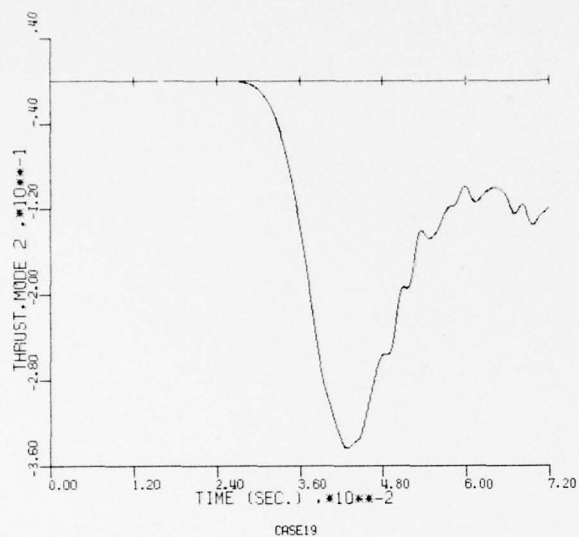
INVERT THRUST  
\*\*\*\*\*  
MODE 0  
SRSS .041860  
MIN. 0.000000  
MAX. 2.182839  
MODES 0-1  
MODAL HISTORY/INPUT  
MODES 0-2  
MODES 0-3  
MODES 0-4  
MODES 0-5  
MODES 0-6  
VARIABLE  
INPUT  
VARIABLE  
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0.  
.25788E+00

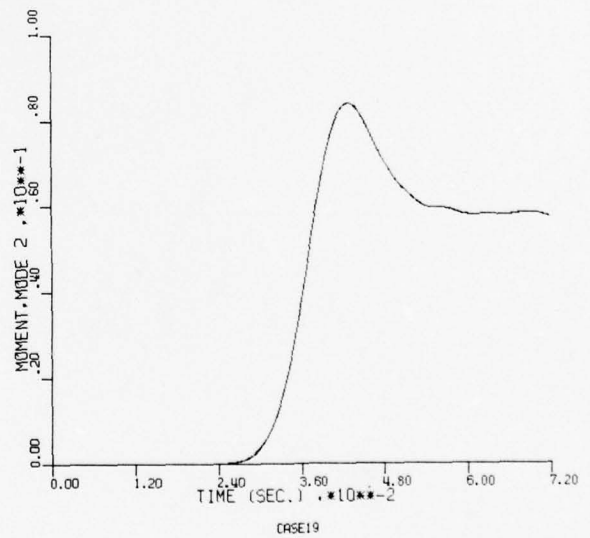
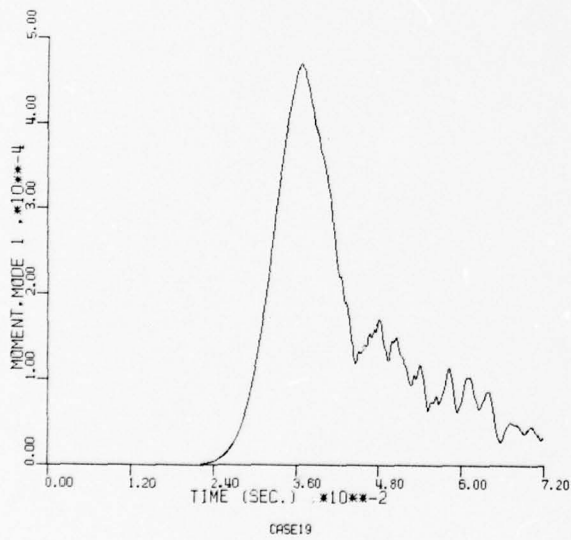
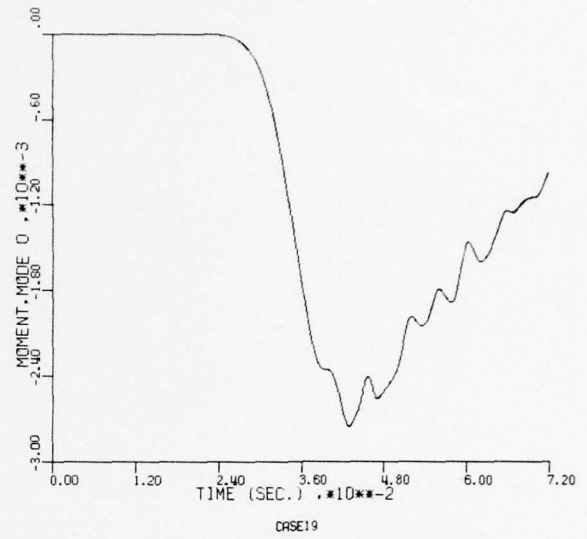
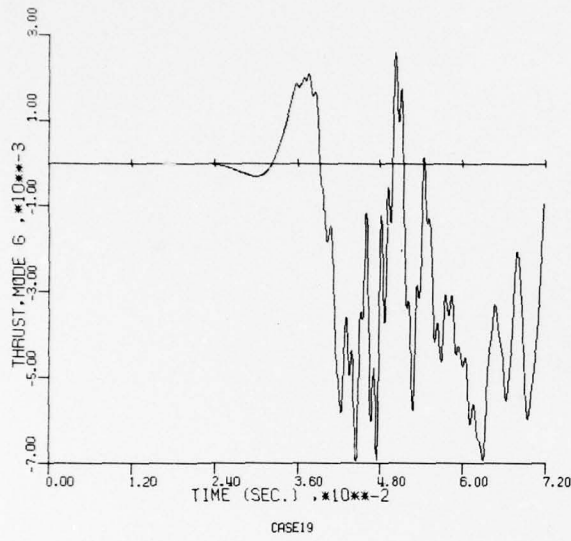
INVERT MOMENT  
\*\*\*\*\*  
MODE 0  
SRSS .041556  
MIN. -.002750  
MAX. .000000  
MODES 0-1  
MODAL HISTORY/INPUT  
MODES 0-2  
MODES 0-3  
MODES 0-4  
MODES 0-5  
MODES 0-6  
VARIABLE  
INPUT  
VARIABLE  
.13546E-02  
-.19147E-21  
.84607E-01

INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0  
SRSS .013456  
MIN. .699330  
MAX. 0.000000  
MODES 0-1  
MODAL HISTORY/INPUT  
MODES 0-2  
MODES 0-3  
MODES 0-4  
MODES 0-5  
MODES 0-6  
VARIABLE  
INPUT  
VARIABLE  
.11656E-01  
-.74967E+00  
0.

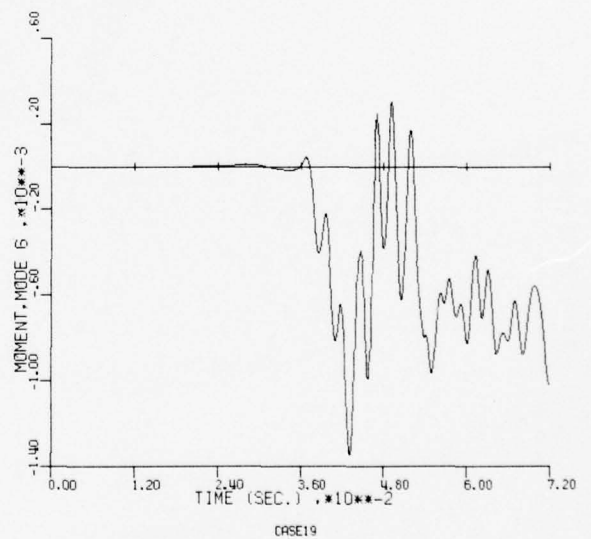
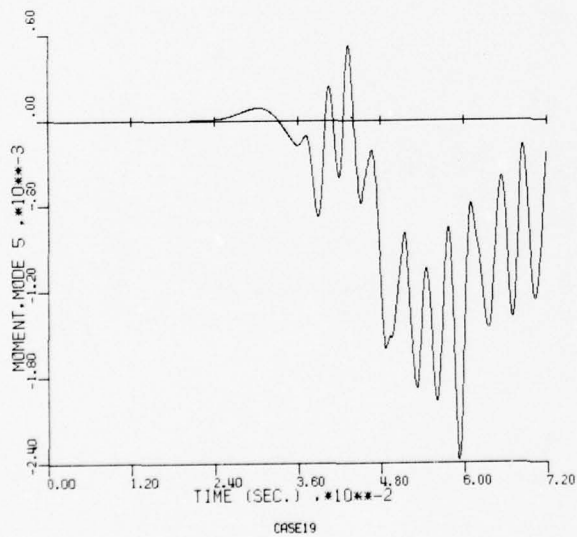
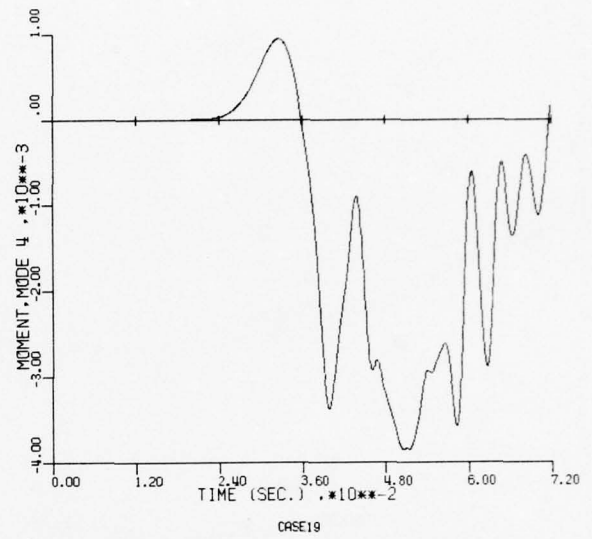
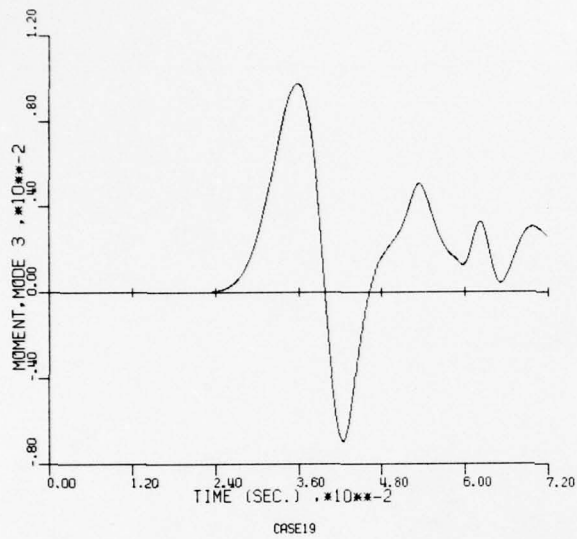


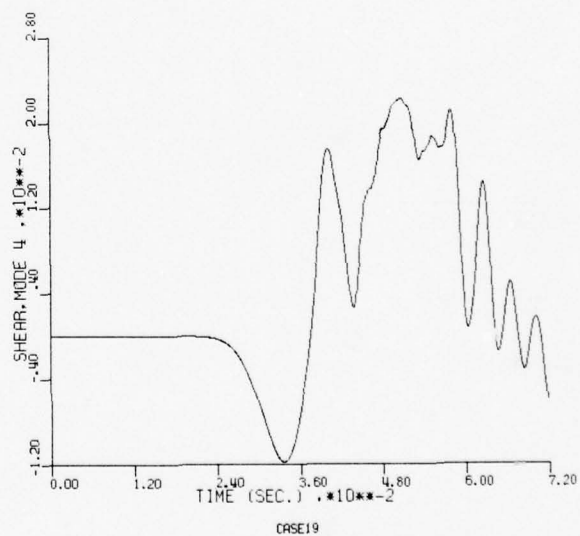
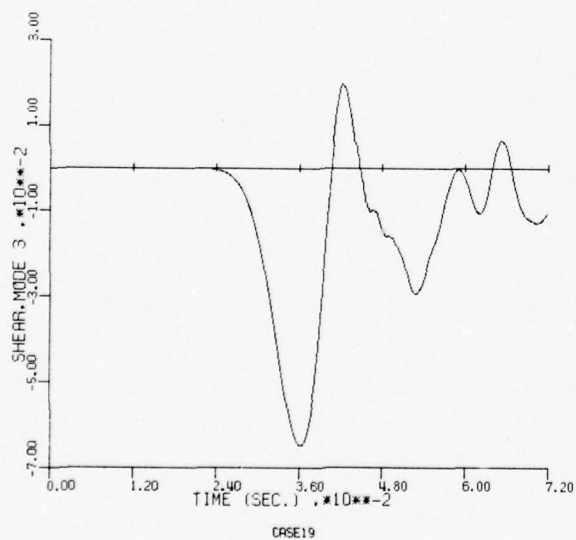
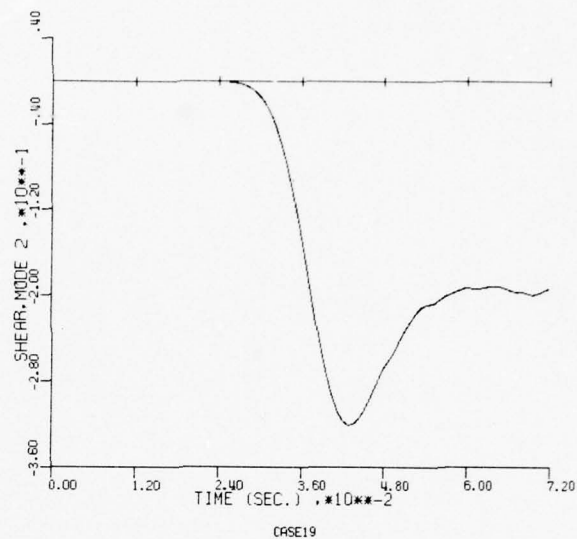
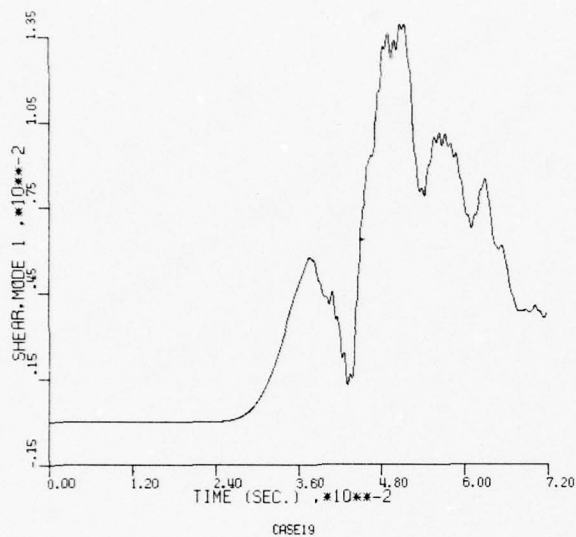


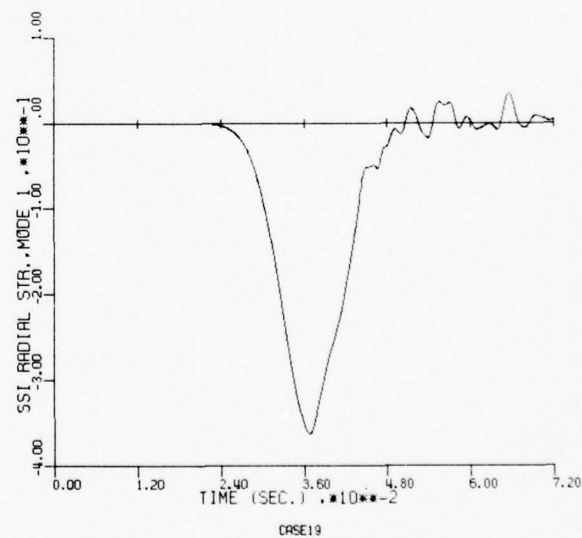
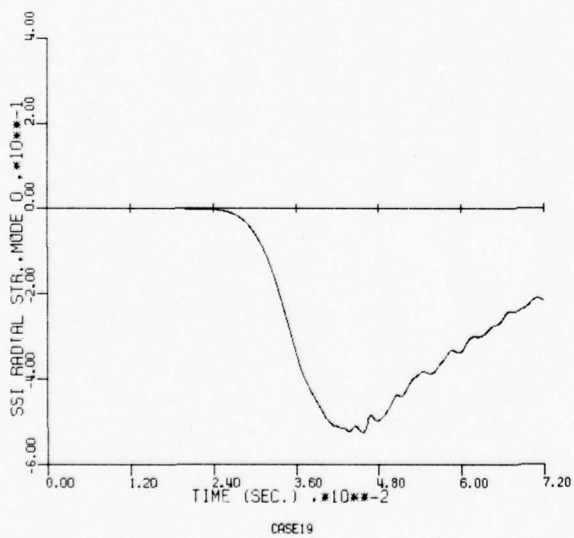
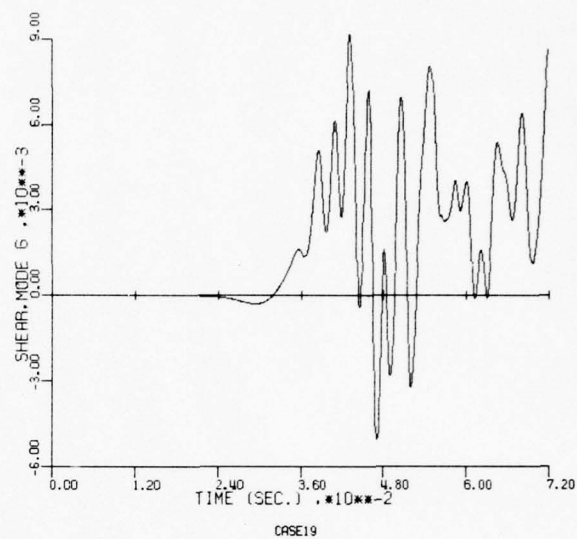
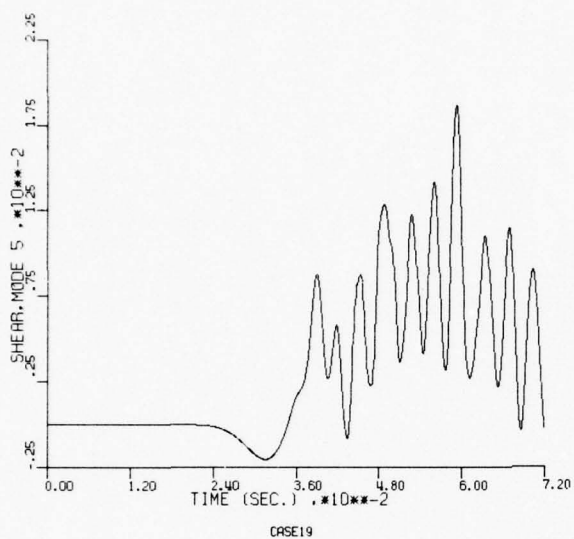


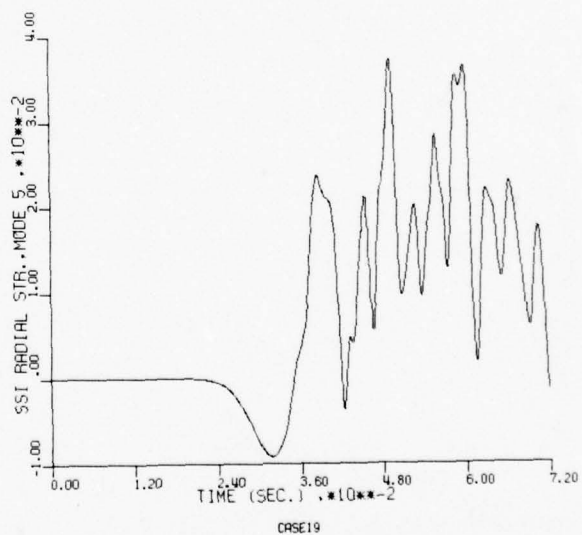
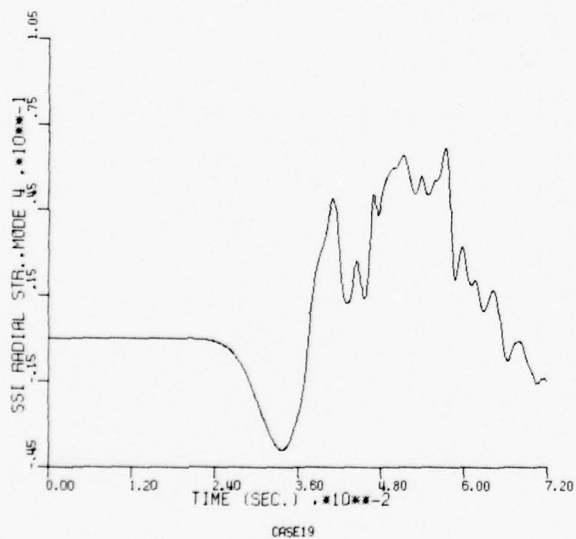
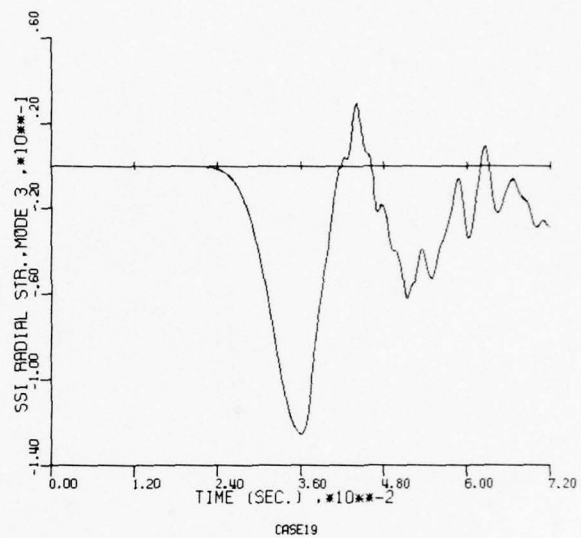
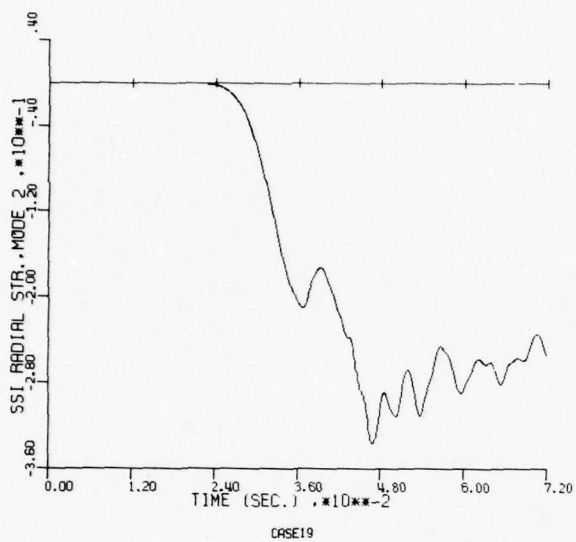


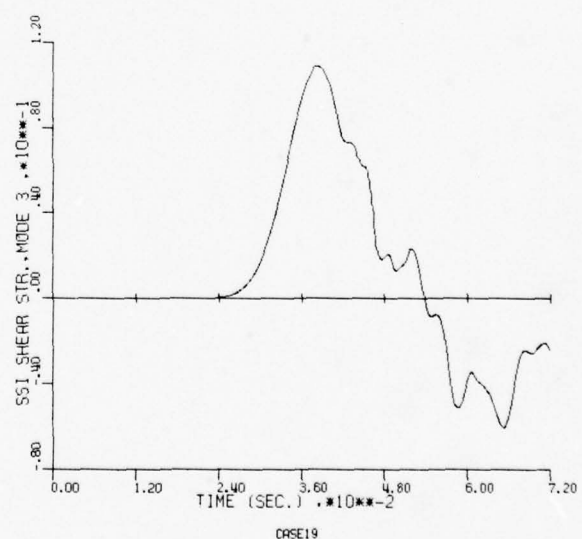
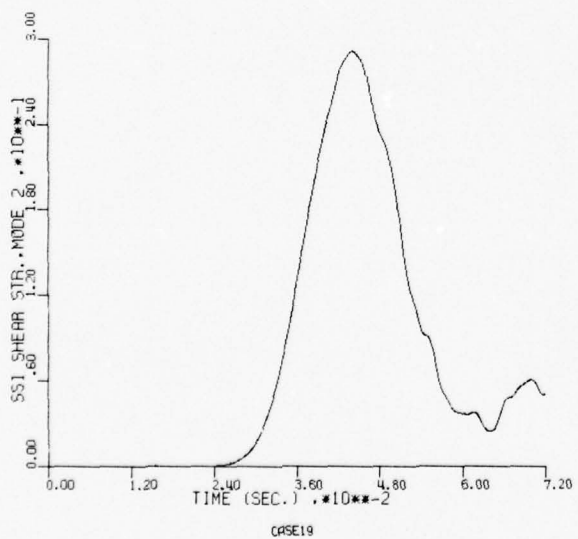
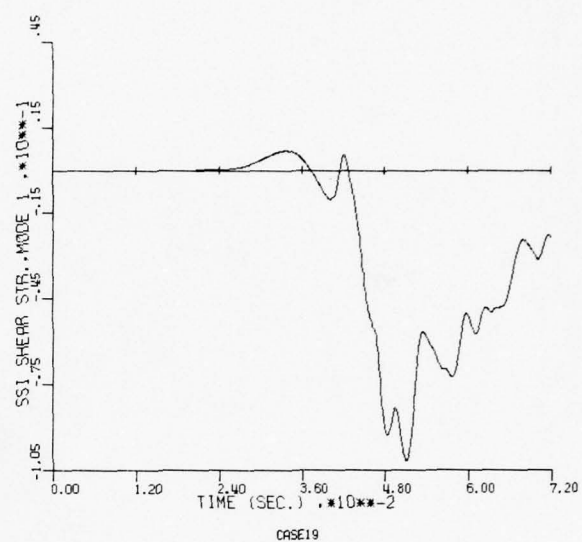
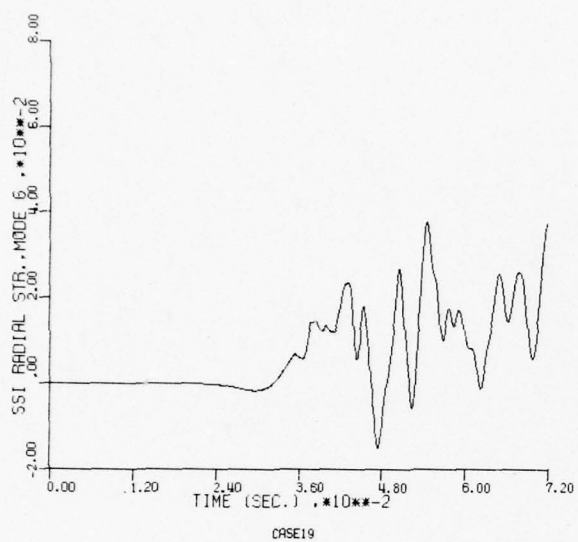




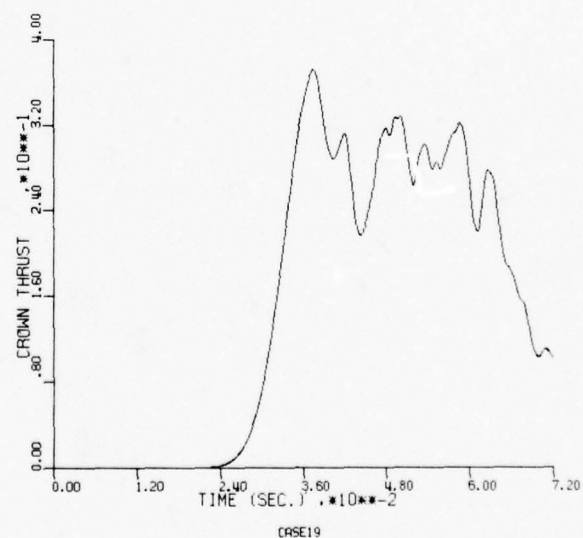
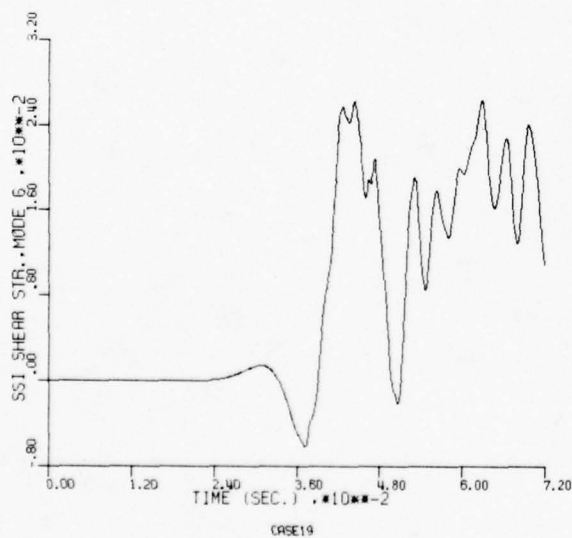
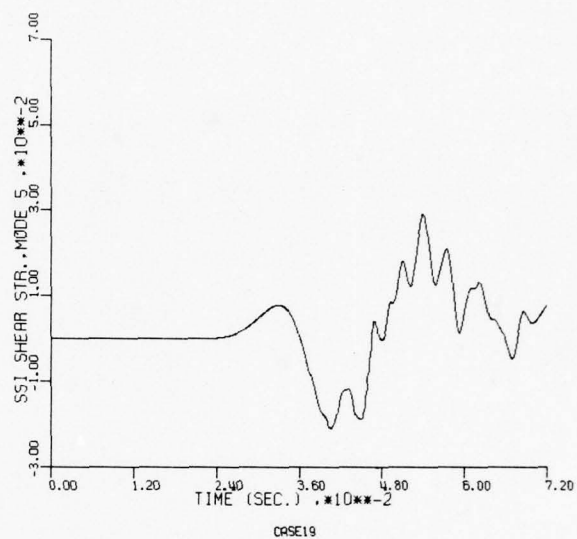
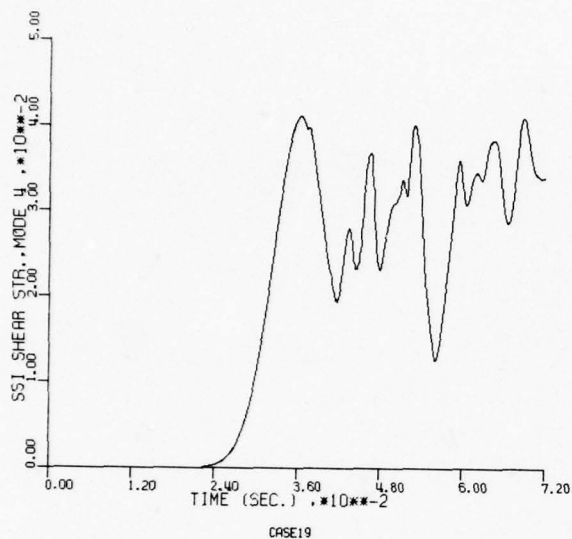


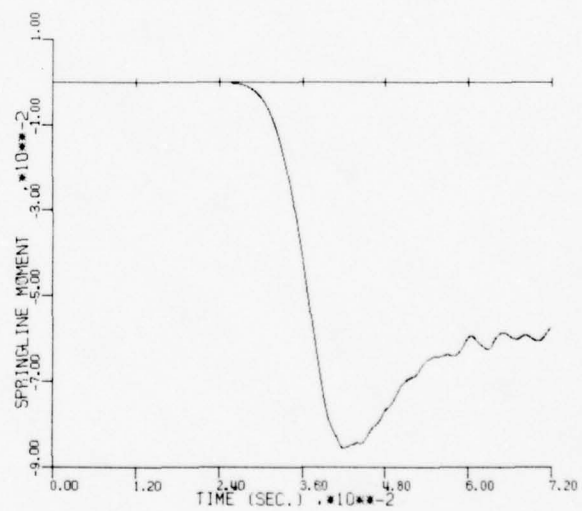
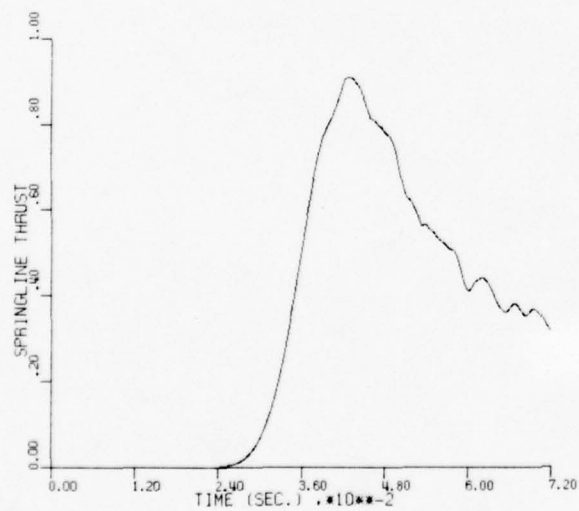
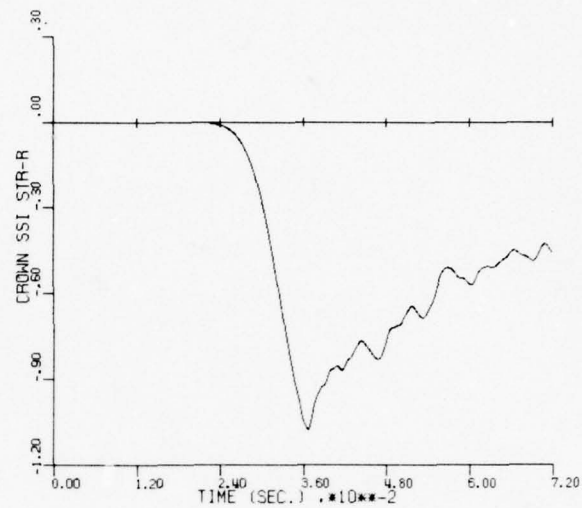
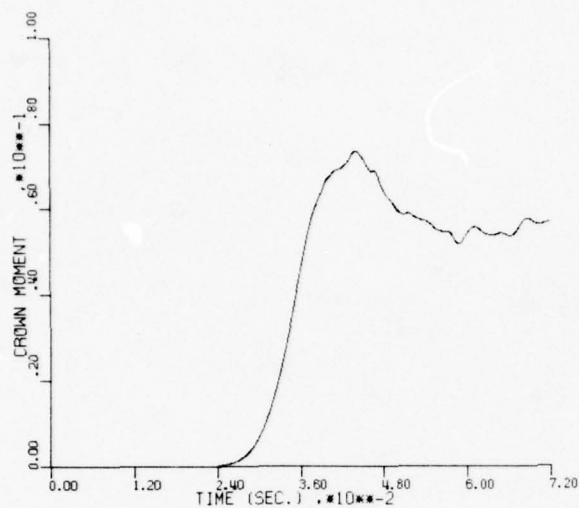


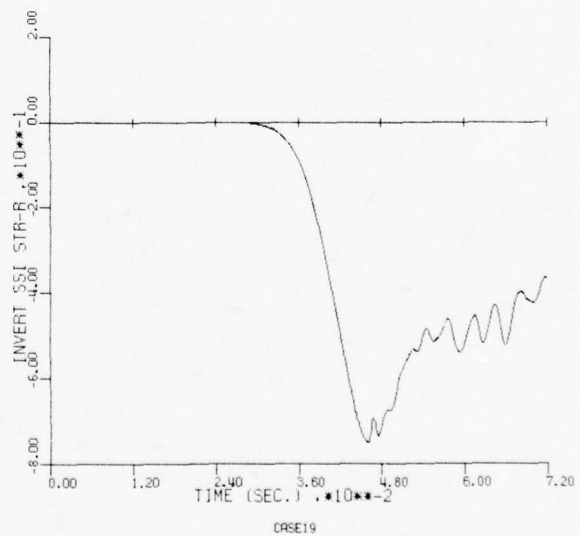
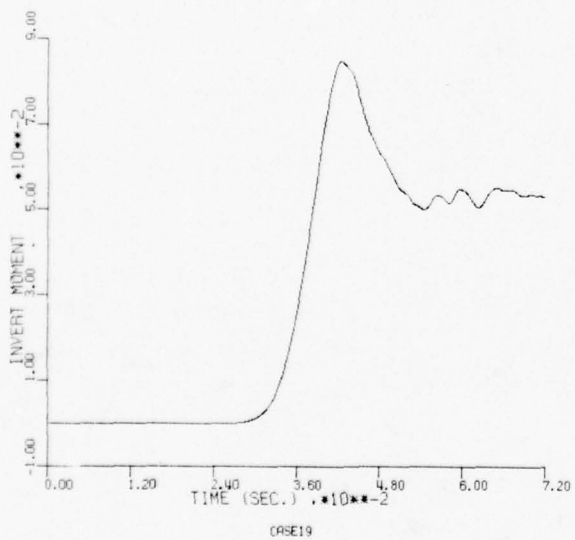
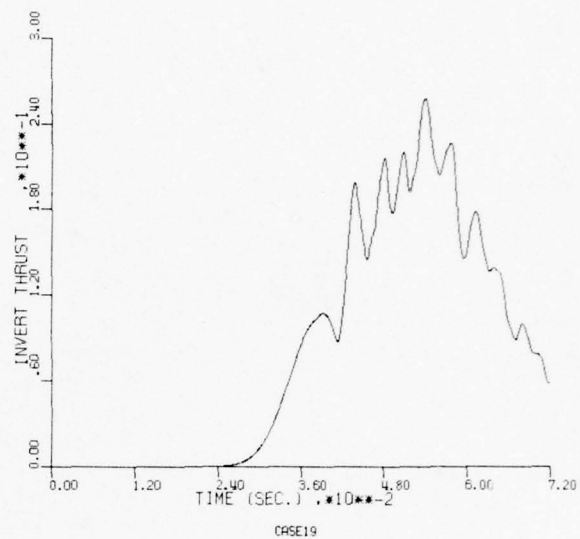
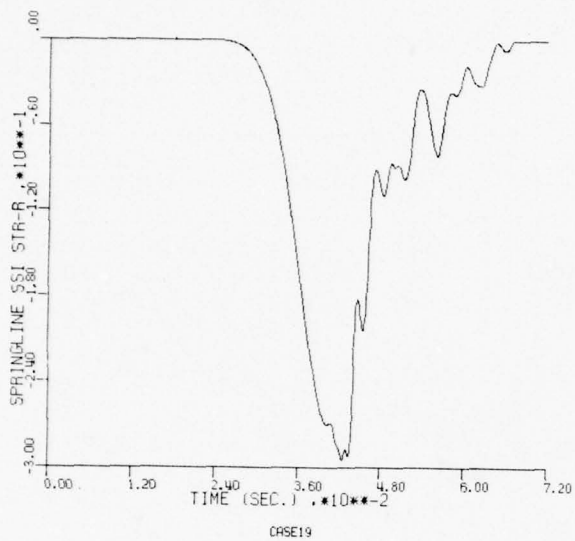












CASE20

THIS PAGE IS BEST QUALITY PRACTICABLE  
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MIN.VALUES

	T	M	V	STR-R	STR-T	TAU-R1
CR 1	-.024919	0.0000000	-.082742	-1.922531	-.751545	-.0000000
2	-.016112	0.0000000	-.142292	-1.749636	-.759112	0.0000000
3	0.0000000	0.0000000	-.224398	-1.502370	-.556984	-.042915
4	0.0000000	0.0000000	-.283000	-1.269950	-.553999	-.100007
5	0.0000000	-.0116794	-.324081	-1.013998	-.415917	-.120607
6	0.0000000	-.0229764	-.356731	-.921867	-.405405	-.155751
7	0.0000000	-.0360865	-.341739	-.692545	-.397092	-.118847
8	0.0000000	-.0464914	-.325548	-.844370	-.407285	-.094915
9	0.0000000	-.0568641	-.277936	-.556465	-.368693	-.078442
10	0.0000000	-.0675860	-.277000	-.656560	-.441924	-.120138
11	0.0000000	-.0842476	-.192551	-.504985	-.386548	-.116507
SPR 12	0.0000000	-.0941106	-.148709	-.606214	-.440264	-.173815
13	0.0000000	-.1095847	-.094258	-.399425	-.447928	-.212797
14	0.0000000	-.1018883	-.008754	-.442801	-.503102	-.301066
15	0.0000000	-.0963651	-.0000000	-.551390	-.299879	-.229253
16	0.0000000	-.0817091	-.0000000	-.517921	-.273699	-.213084
17	0.0000000	-.0597972	-.0000000	-.612247	-.434708	-.255816
18	0.0000000	-.0310710	-.002069	-.521352	-.342135	-.236437
19	0.0000000	-.0039769	-.025709	-.861923	-.482338	-.445764
20	0.0000000	-.0000000	-.049016	-.627431	-.282054	-.291241
21	-.021954	-.0000000	-.066174	-.885003	-.356714	-.359718
22	-.064677	-.0000000	-.081240	-.815619	-.299042	-.207169
23	-.115920	-.0000000	-.075666	-.986499	-.343913	-.164355
INV 24	-.142520	-.0000000	-.026547	-.891331	-.385853	-.095077

MAX.VALUES

	T	M	V	STR-R	STR-T	TAU-R1
CR 1	.610662	.0774030	.0000000	0.0000000	0.0000000	.168349
2	.611575	.0720560	0.0000000	0.0000000	0.0000000	.347033
3	.688418	.0665932	0.0000000	0.0000000	0.0000000	.432067
4	.709189	.0541603	0.0000000	0.0000000	0.0000000	.452006
5	.796527	.0426097	0.0000000	0.0000000	0.0000000	.353791
6	.679213	.0232228	0.0000000	0.0000000	0.0000000	.318597
7	.904381	.0045467	.007938	0.0000000	0.0000000	.297585
8	.924463	.0000000	.055202	0.0000000	0.0000000	.213551
9	.905744	.0000000	.109827	0.0000000	0.0000000	.234259
10	.908163	.0000000	.154370	0.0000000	0.0000000	.142702
11	.922992	.0000000	.202938	0.0000000	0.0000000	.123585
SPR 12	.913808	.0000000	.235095	0.0000000	0.0000000	.042871
13	.901978	.0000000	.260384	0.0000000	0.0000000	.021025
14	.861276	.0003440	.264872	0.0000000	0.0000000	.011817
15	.826997	.0059331	.261614	0.0000000	0.0000000	.032615
16	.787457	.0117634	.315609	0.0000000	0.0000000	.021905
17	.690817	.0184823	.352591	0.0000000	0.0000000	.006085
18	.618930	.0258668	.435814	0.0000000	0.0000000	.066069
19	.483106	.0325128	.423646	0.0000000	0.0000000	.036901
20	.414387	.0384863	.432247	0.0000000	0.0000000	.026220
21	.331689	.0586466	.386126	0.0000000	0.0000000	.083047
22	.355019	.0824572	.303342	0.0000000	0.0000000	.061613
23	.372692	.0982712	.204744	0.0000000	0.0000000	.050869
INV 24	.386396	.1071428	.082052	0.0000000	0.0000000	.016031

MIN-MAX MODAL AMPLITUDES -- CASE 20

LINER THRUST PEAK MODAL AMPLITUDES  
 MODE 0 MODE 1 MODE 2 MODE 3 MODE 4 MODE 5 MODE 6  
 MIN 0. -.57456E-01 -.39939E+00 -.14182E+00 -.66450E-01 -.33580E-01 -.19354E-01  
 MAX .55514E+00 .38157E+00 .28243E-01 .25366E-01 .16378E-01 .98319E-02 .12310E-01

LINER MOMENT PLAK MODAL AMPLITUDES  
 MODE 0 MODE 1 MODE 2 MODE 3 MODE 4 MODE 5 MODE 6  
 MIN -.28232E-02 -.11112E-03 0. -.21103E-01 -.14687E-01 -.85642E-02 -.42743E-02  
 MAX .33390E-13 .67392E-03 .92403E-01 .28899E-01 .10324E-01 .42229E-02 .41289E-02

LINER SHEAR PEAK MODAL AMPLITUDES  
 MODE 0 MODE 1 MODE 2 MODE 3 MODE 4 MODE 5 MODE 6  
 MIN 0. -.19327E-02 -.35157E+00 -.16418E+00 -.82423E-01 -.43884E-01 -.36867E-01  
 MAX 0. .13016E-01 0. .90771E-01 .78952E-01 .61073E-01 .40764E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES  
 MODE 0 MODE 1 MODE 2 MODE 3 MODE 4 MODE 5 MODE 6  
 MIN -.57084E+00 -.53395E+00 -.42455E+00 -.32322E+00 -.22907E+00 -.15474E+00 -.10237E+00  
 MAX 0. .10433E+00 0. .13575E+00 .15017E+00 .93143E-01 .78171E-01

SSI SHEAR STR. PEAK MODAL AMPLITUDES  
 MODE 0 MODE 1 MODE 2 MODE 3 MODE 4 MODE 5 MODE 6  
 MIN 0. -.80201E-01 -.21498E-01 -.39338E-01 -.24171E-01 -.20812E-01 -.85572E-02  
 MAX 0. .35679E-01 .30169E+00 .14657E+00 .11488E+00 .64358E-01 .42681E-01



CASE 20

CROWN THRUST

MODE	0	MODES 0-1	MODES 0-2	MODAL HISTORY/INPUT	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
SRSS	.020482	.014962	.006067	.002905	.002261	.304780	.884644	.953468	.966630	.58140E-02
MIN.	0.000000	0.000000	0.000000	.111976	.304780	.884644	.953468	.966630	.966630	-.24919E-01
MAX.	.909083	1.401461	1.227623	1.038644	.964007	.953468	.966630	.966630	.966630	.61066E+00

CROWN MOMENT

MODE	0	MODES 0-1	MODES 0-2	MODAL HISTORY/INPUT	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
SRSS	.033156	.033168	.004541	.002377	.001155	.000720	.000976	.000976	.000976	.14310E-02
MIN.	-.002823	-.002747	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.
MAX.	.000000	.003020	1.149060	1.033543	.992366	.995882	1.008836	1.008836	1.008836	.77403E-01

CROWN SSI STR-R

MODE	0	MODES 0-1	MODES 0-2	MODAL HISTORY/INPUT	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
SRSS	.014474	.015643	.004675	.004211	.000855	.001590	.003008	.003008	.003008	.18898E-01
MIN.	.296920	.476600	.647060	.807022	.911628	.970337	.997558	.997558	.997558	-.19225E+01
MAX.	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.

SPRINGLINE THRUST

MODE	0	MODES 0-1	MODES 0-2	MODAL HISTORY/INPUT	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
SRSS	.003523	.003673	.000005	.000266	.000000	.000171	.000191	.000191	.000191	.14060E-01
MIN.	0.000000	0.000000	-.000000	-.000000	-.000000	-.000000	0.000000	0.000000	0.000000	0.
MAX.	.607505	.613958	1.028577	1.036967	1.001019	1.001059	.999610	.999610	.999610	.91381E+00

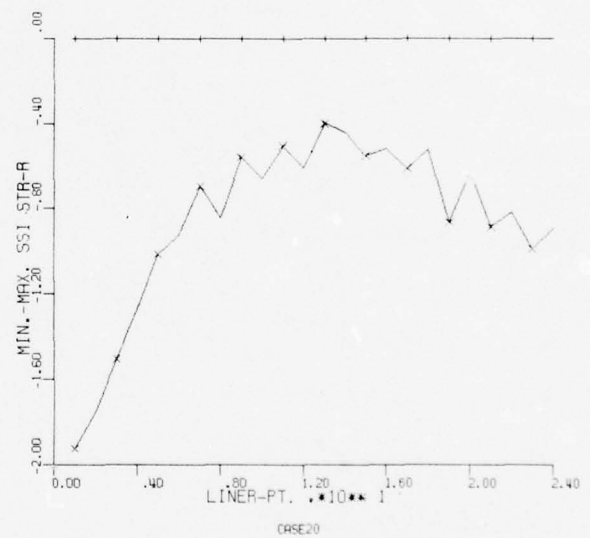
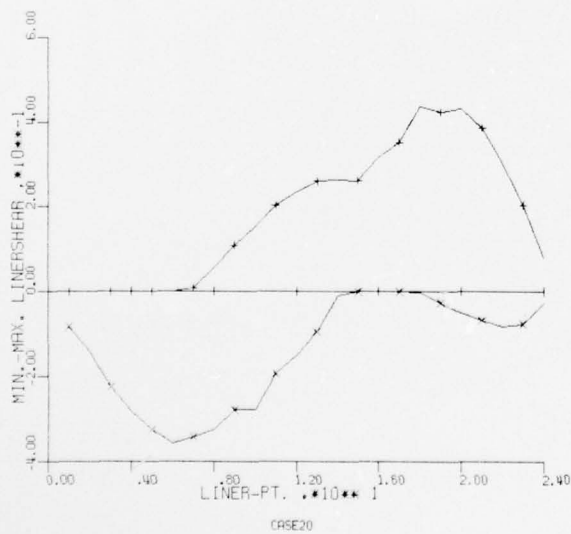
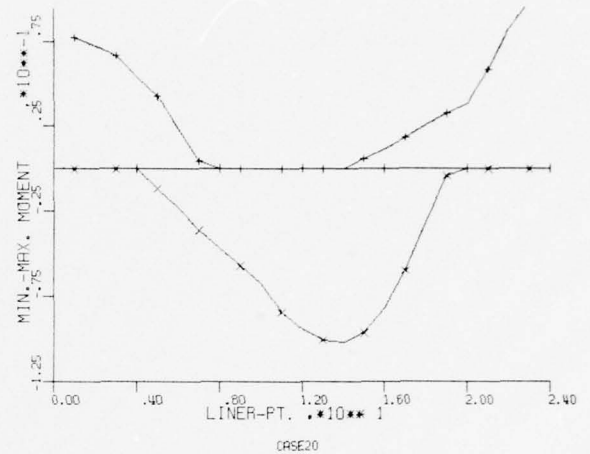
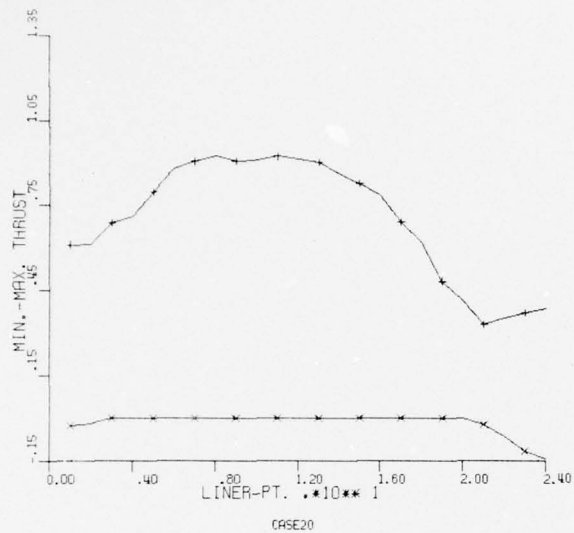
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MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .022292 .002001 .002366 .000632 .000506 .000288  
MIN. .029998 .029561 1.002455 .969751 1.000137 .996217 .996091  
MAX. .000000 .000000 0.000000 0.000000 .000000 .000000 .000000  
INPUT  
VARIABLE  
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-.94111E-01  
.30323E-40

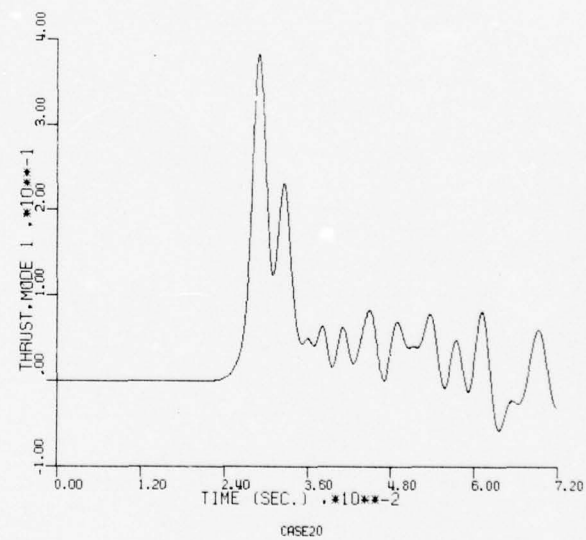
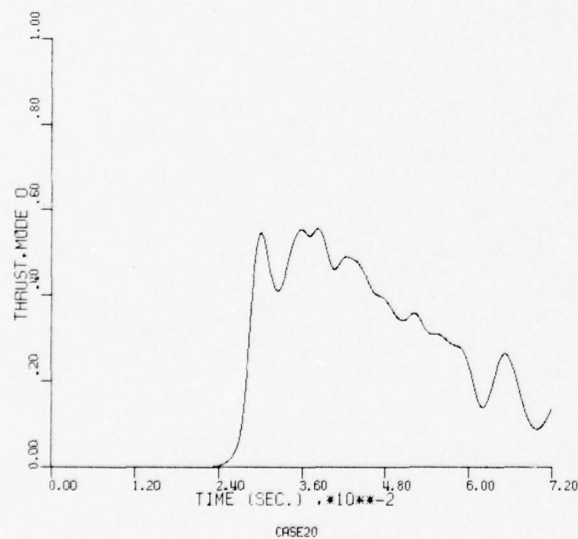
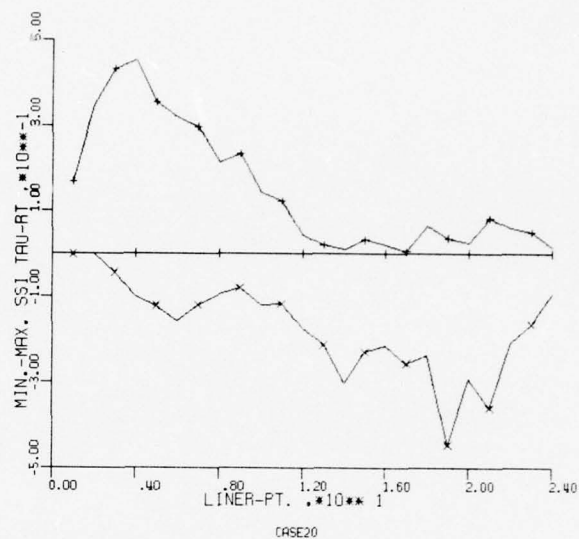
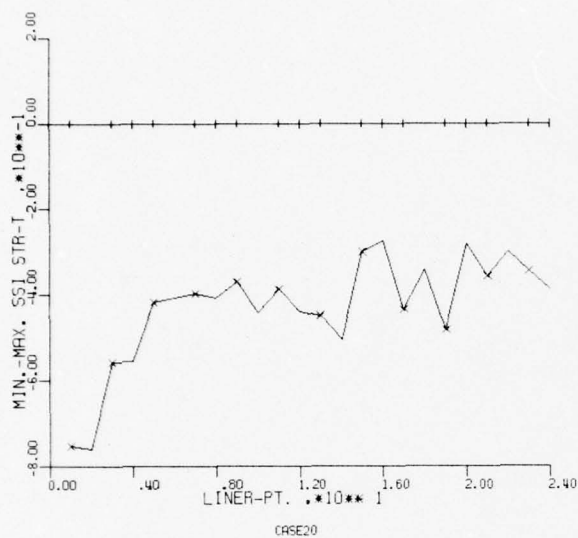
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .033583 .016104 .018535 .005175 .006341 .000294  
MIN. .941644 .671594 .621915 .675421 .736800 .794171  
MAX. 0.000000 0.000000 .103698 .024380 .016235 .004138  
INPUT  
VARIABLE  
.40383E-02  
-.60621E+00  
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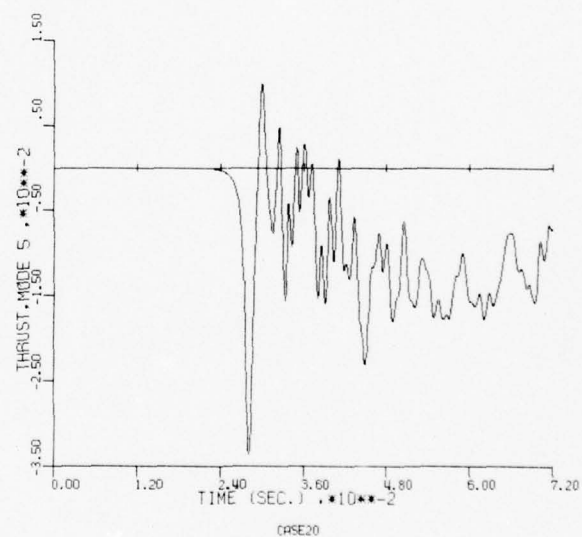
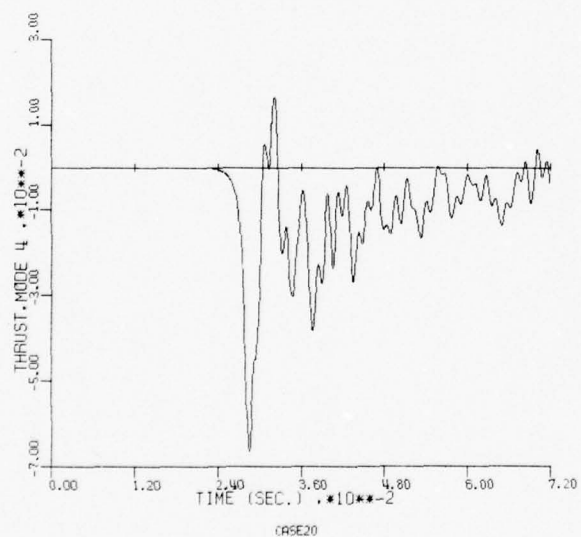
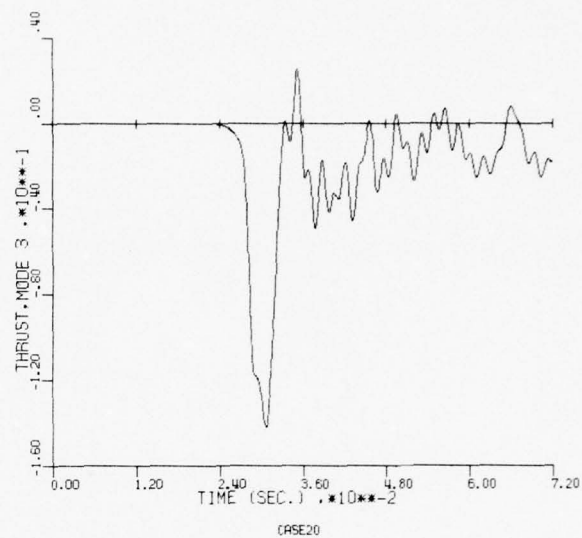
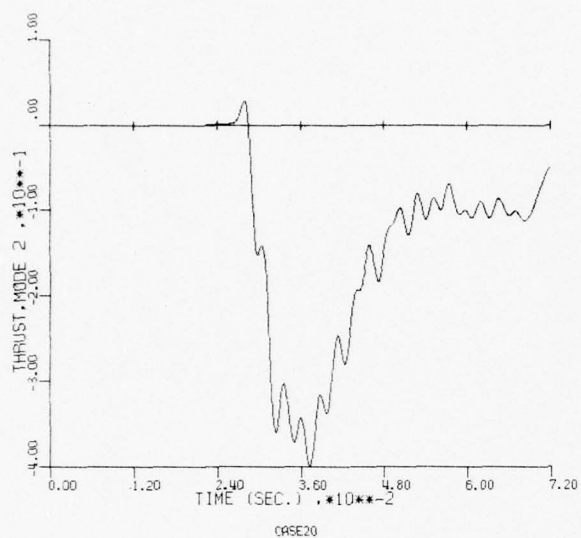
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MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .000229 .007621 .000291 .000056 .000918 .000712 .000460  
MIN. 0.000000 .172455 1.221695 .970974 .981893 .992766 1.005907  
MAX. 1.436721 1.310448 .615049 .974623 .987360 .988142 .995015  
INPUT  
VARIABLE  
.43415E-02  
-.14252E+00  
.38640E+00

INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .028223 .028212 .001803 .003854 .000603 .000202 .00034  
MIN. -.002823 -.003481 0.000000 -.006370 -.001391 -.000287 0.000000  
MAX. .000000 0.000000 .329068 1.003088 .992241 .992529 .993239  
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VARIABLE  
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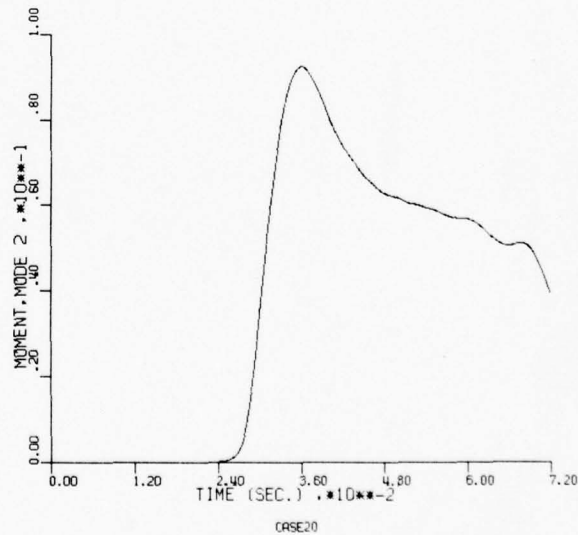
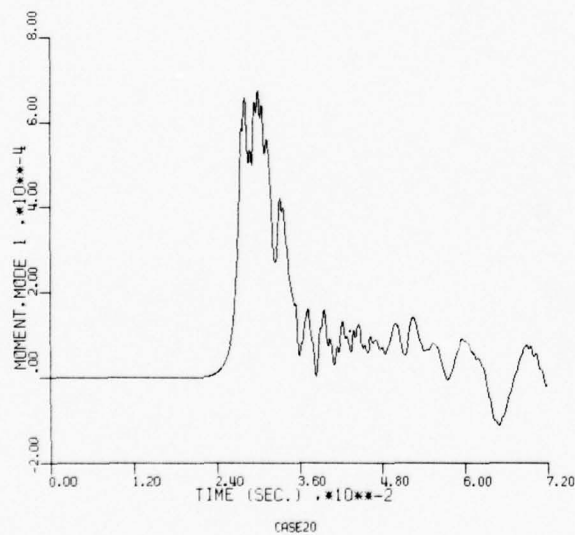
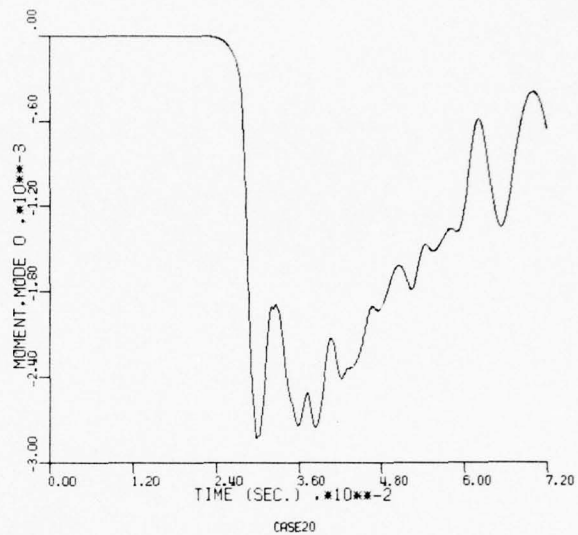
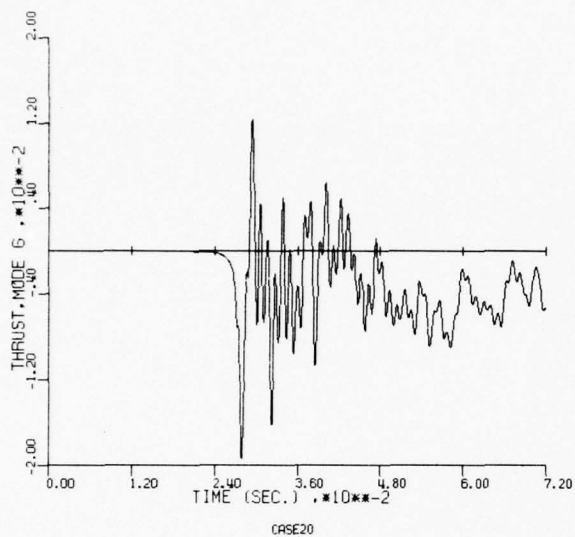
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .020228 .018492 .002220 .002908 .004609 .003519 .005623  
MIN. .640433 .600469 1.002725 1.087489 1.092688 1.042341 1.045858  
MAX. 0.000000 .232702 0.000000 .130471 .005263 .055075 .025480  
INPUT  
VARIABLE  
.12738E-01  
-.89133E+00  
0.

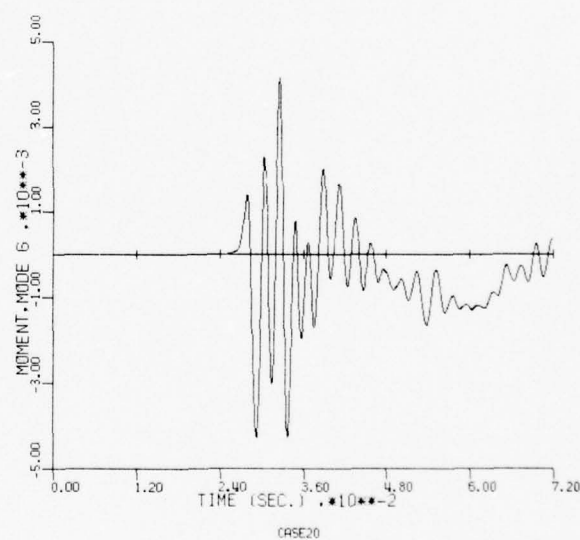
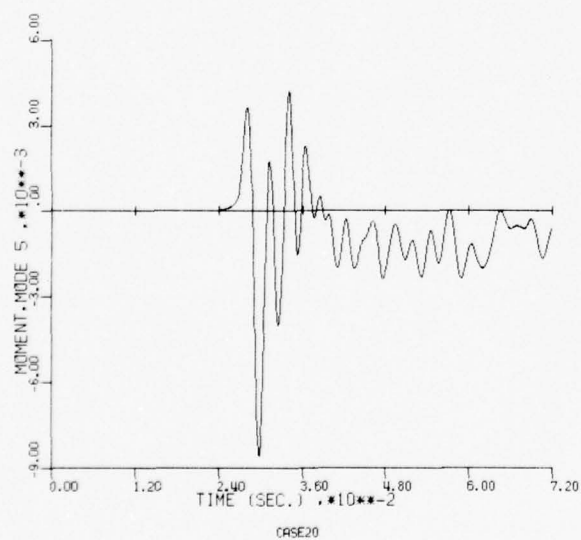
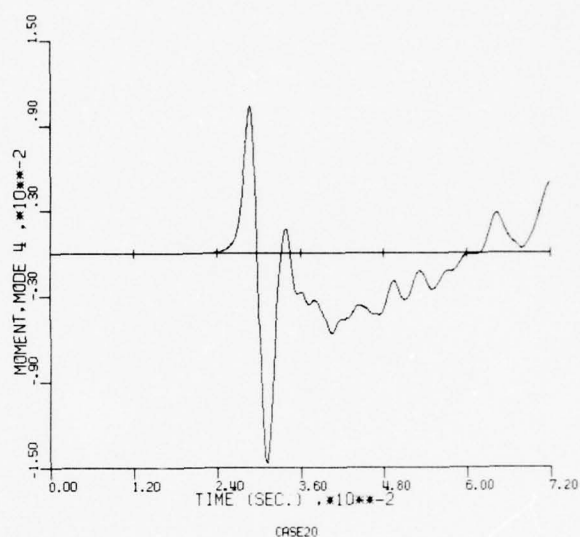
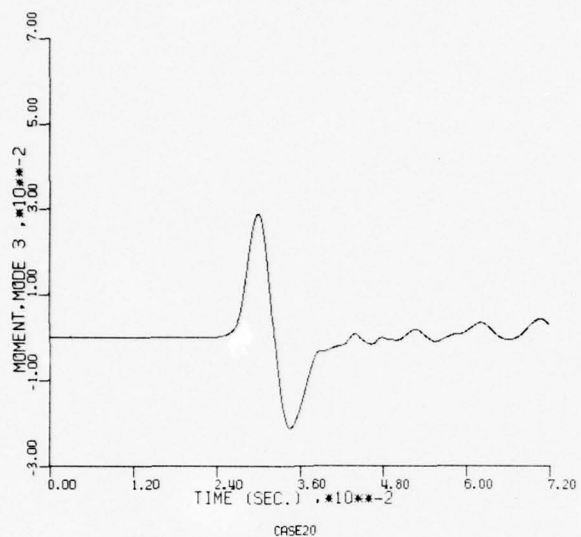


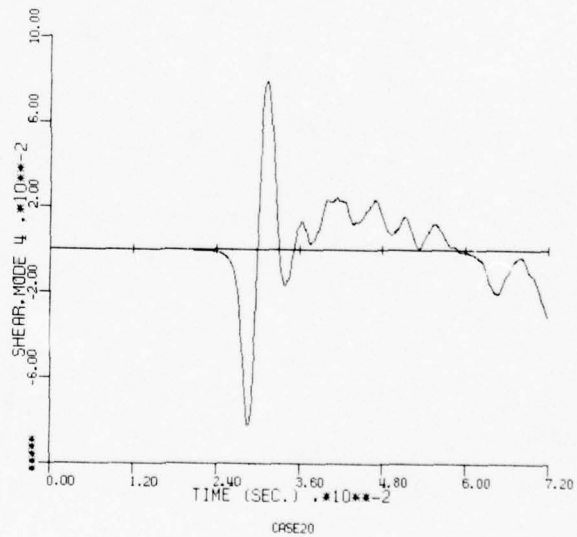
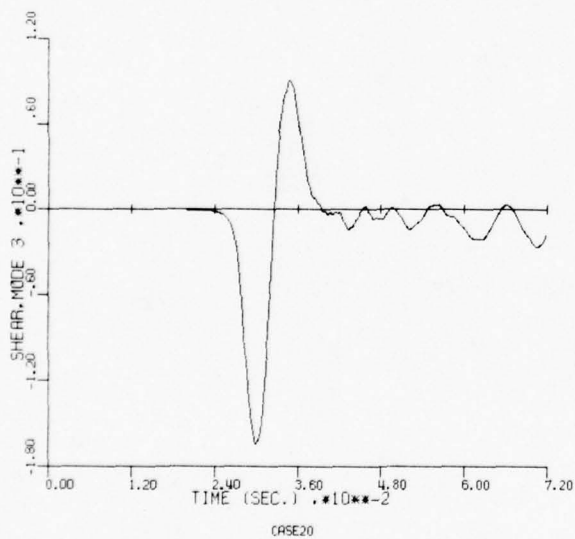
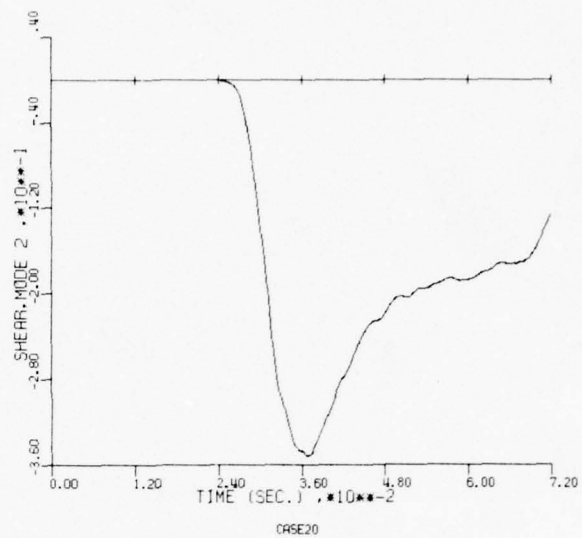
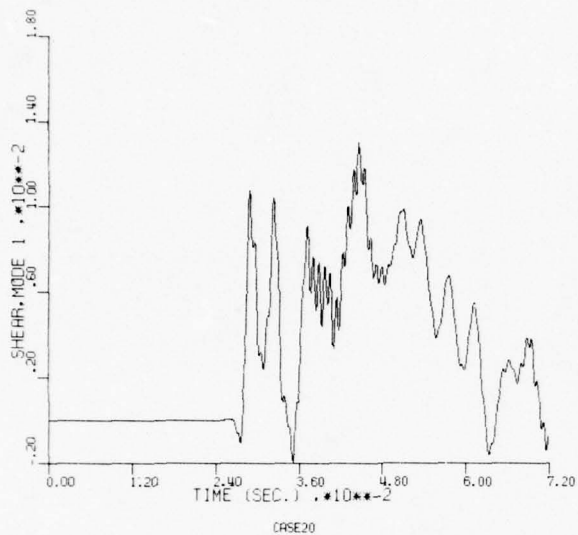


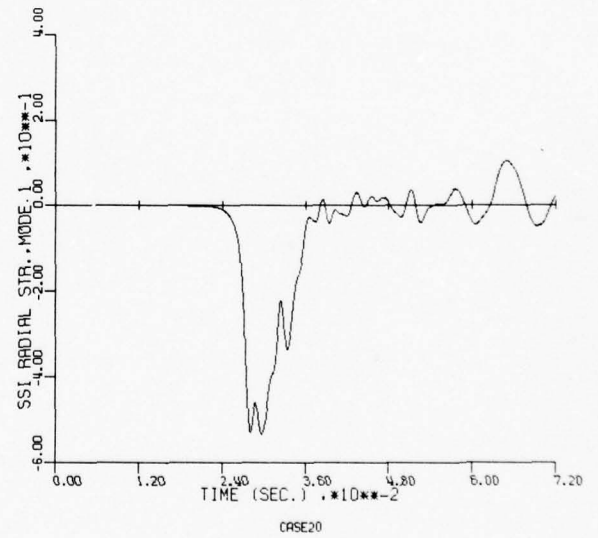
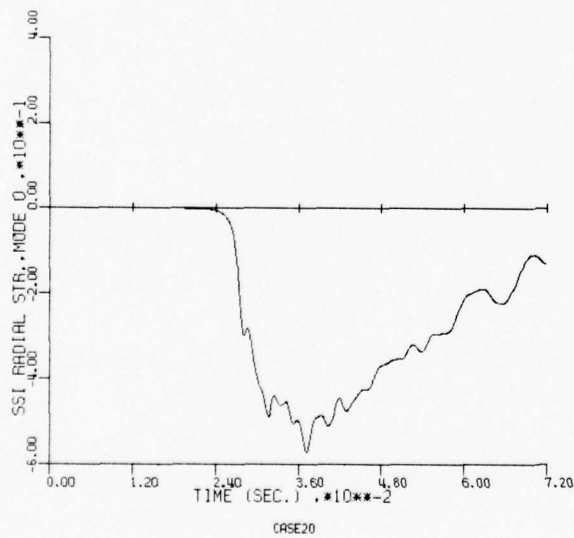
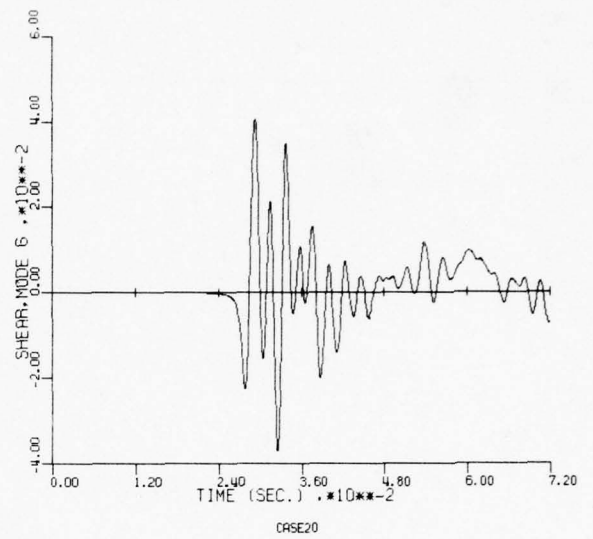
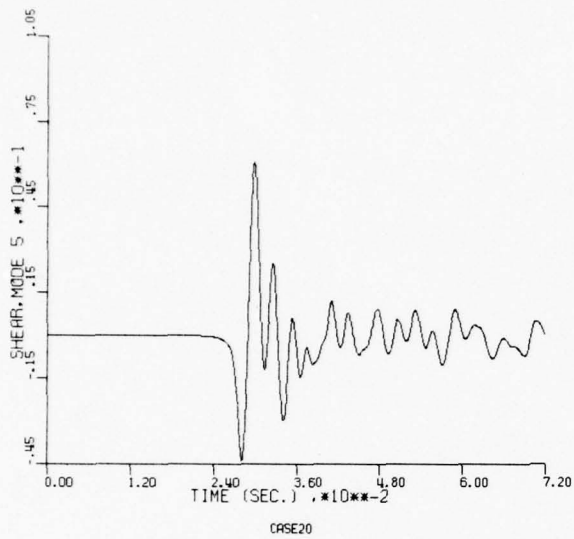


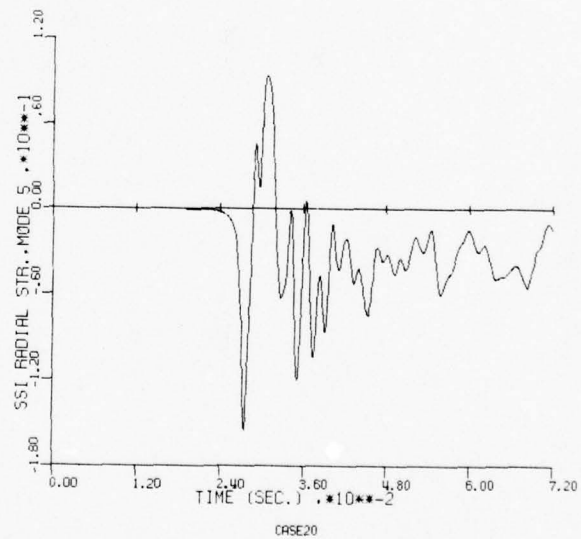
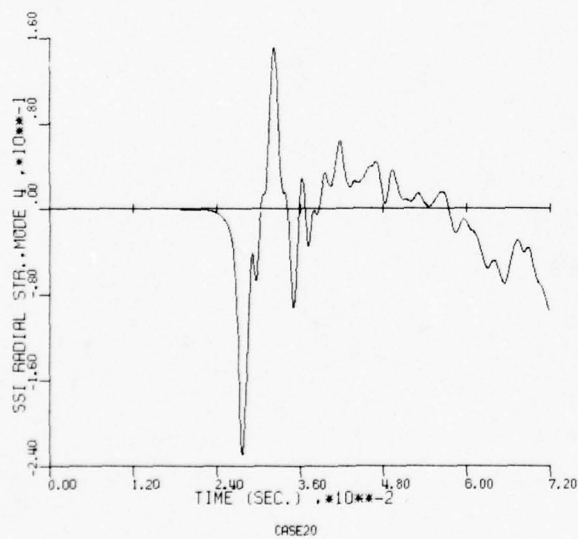
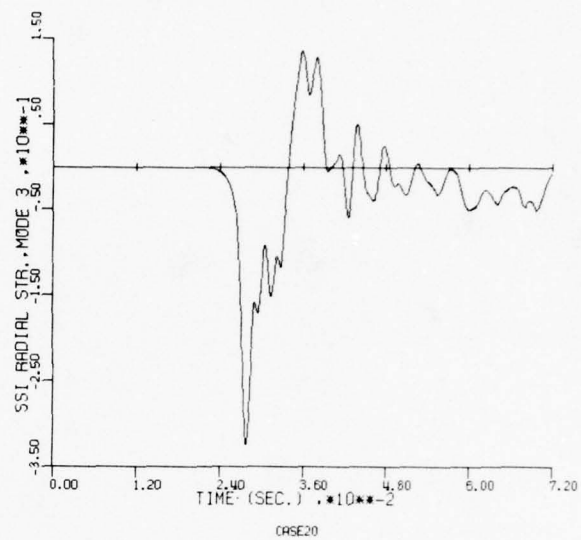
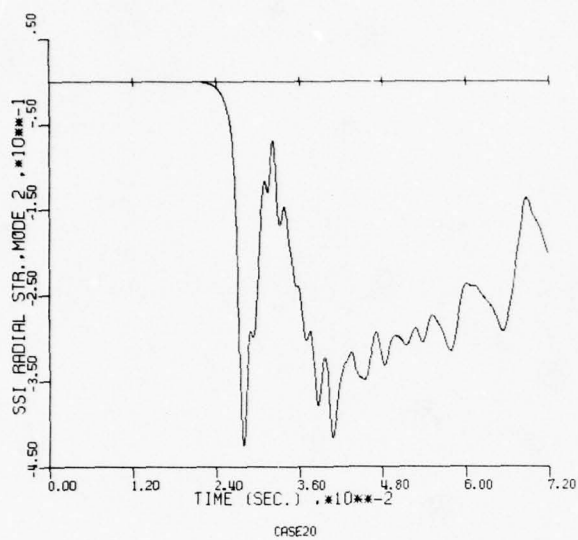




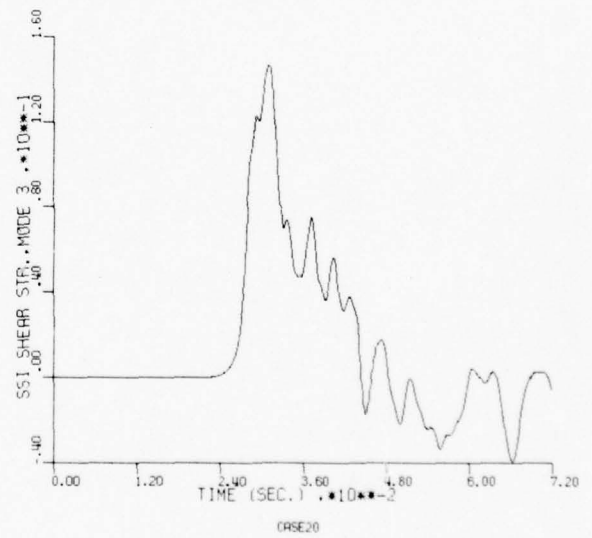
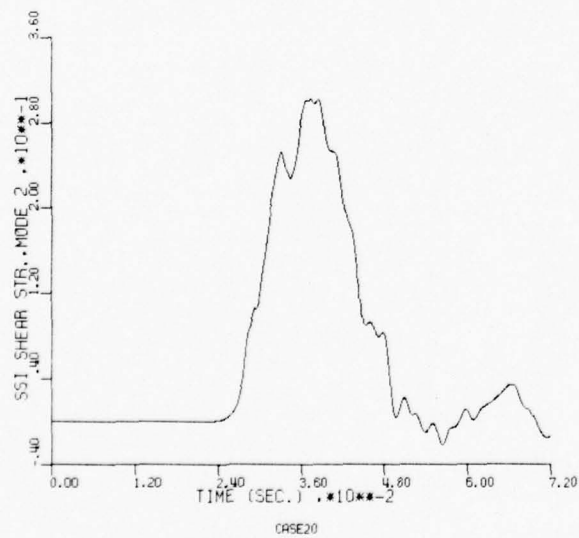
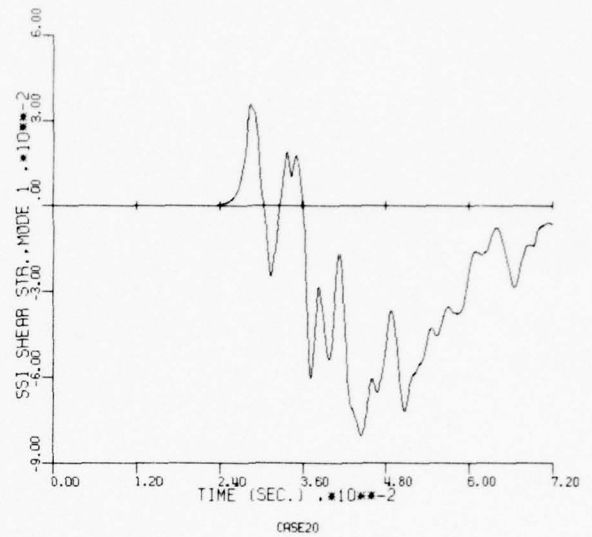
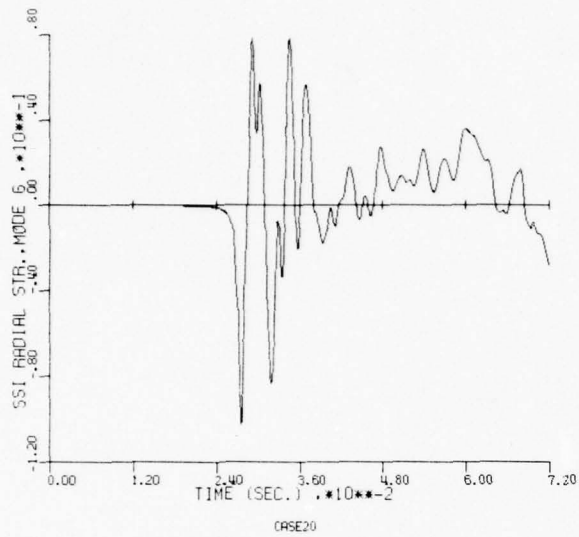


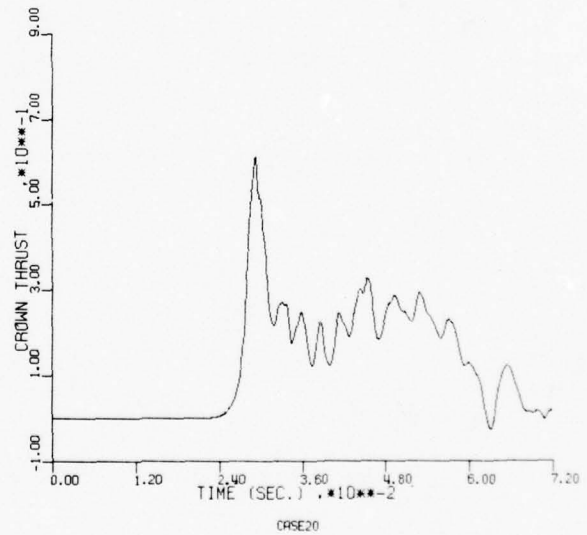
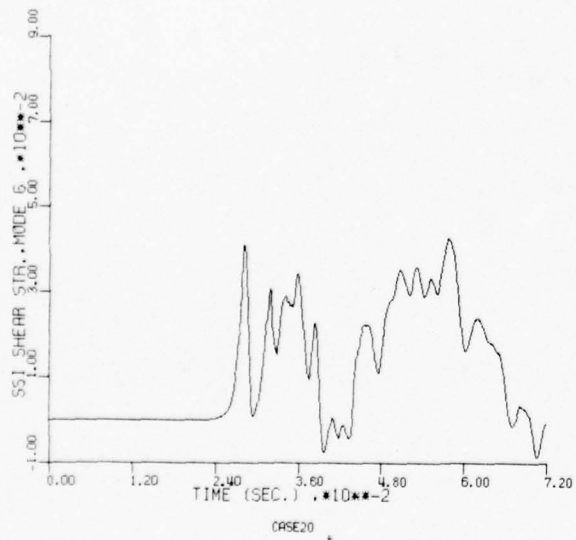
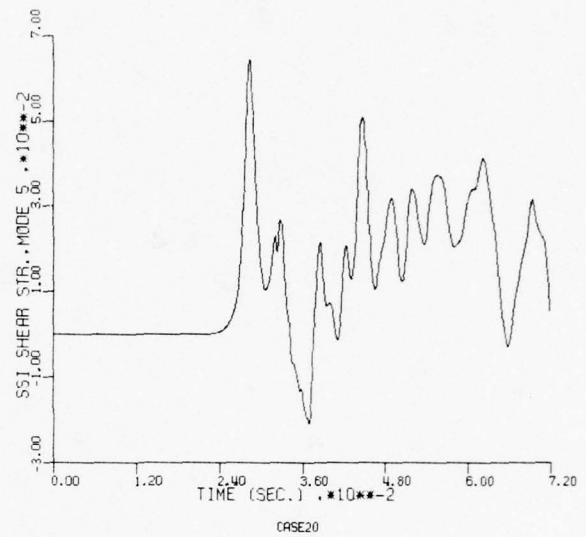
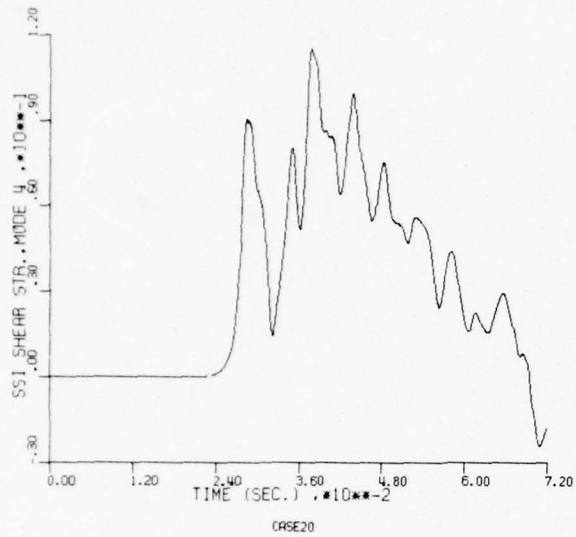


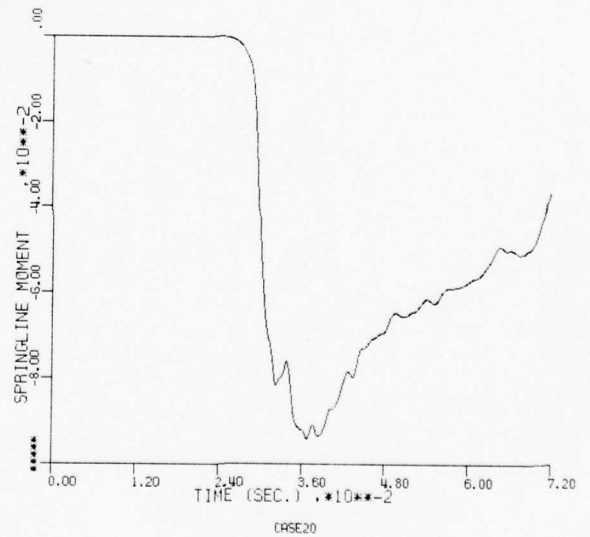
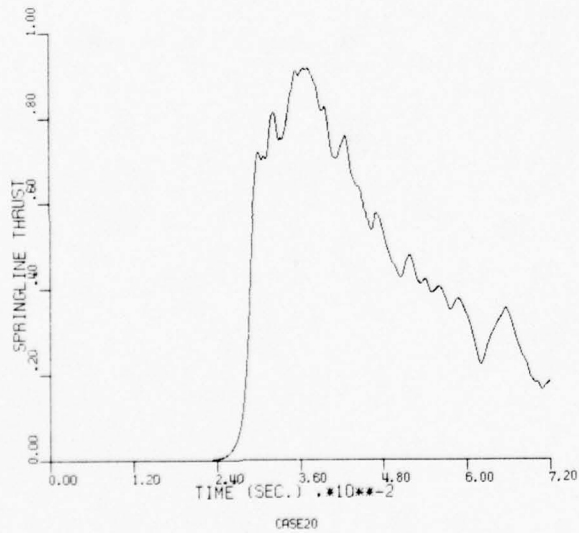
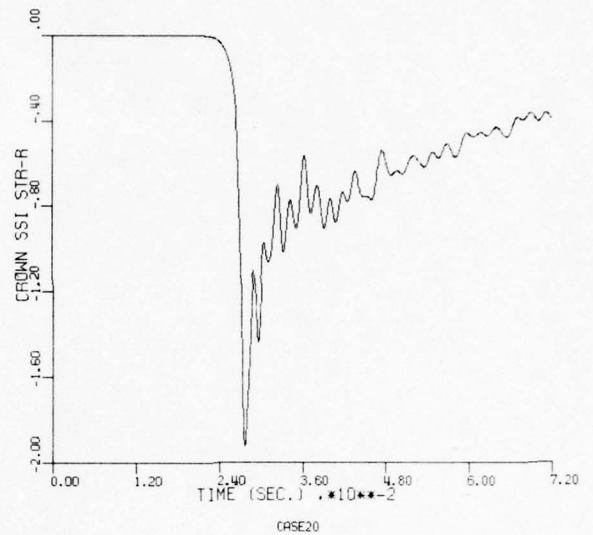
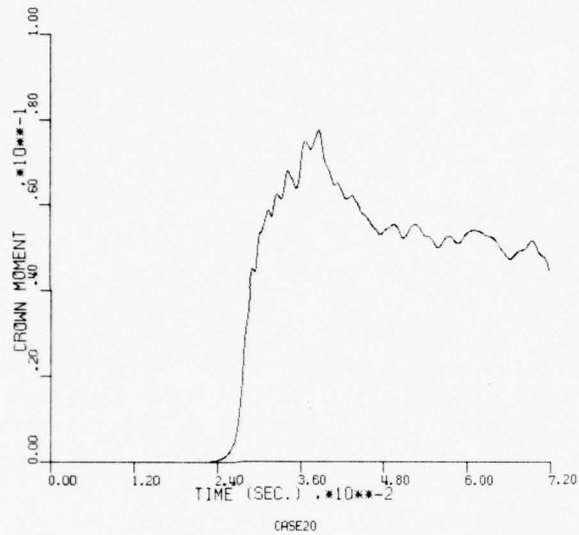


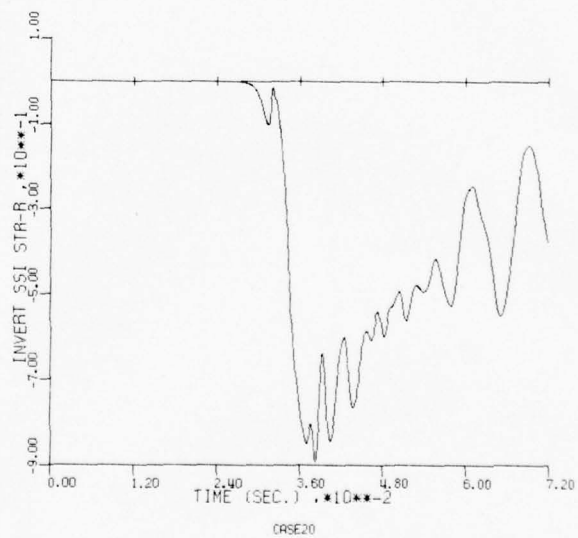
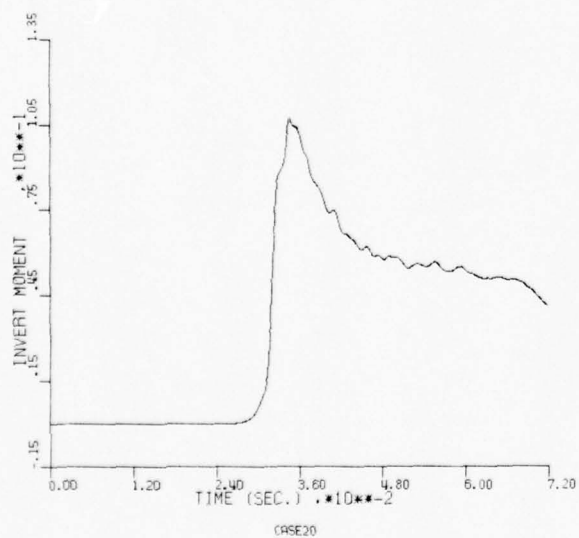
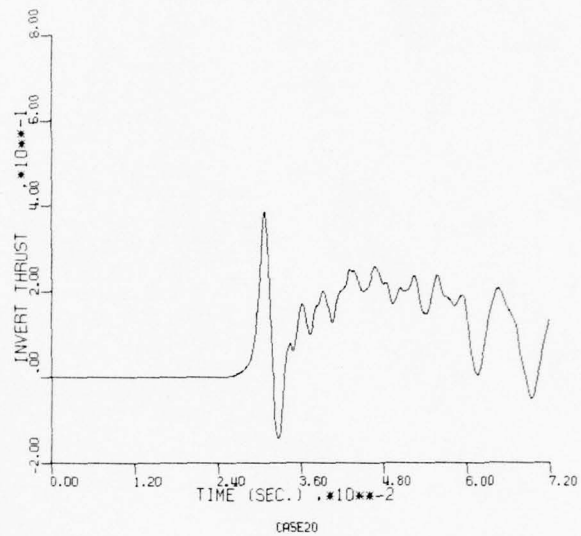
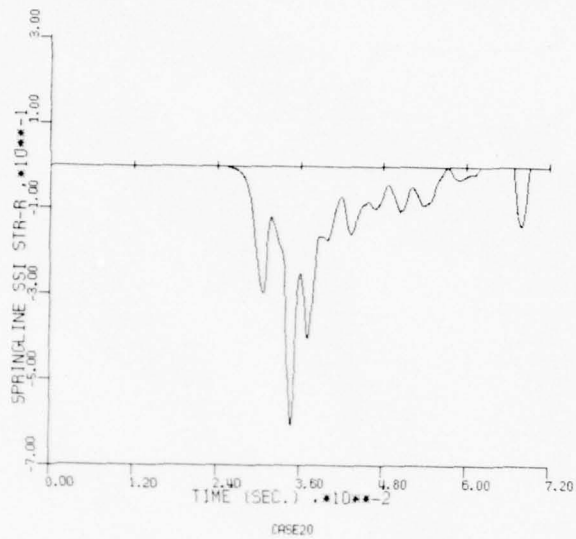












CASE21

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MIN.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.015081	-.374243	-.128717	-.000000
	2	0.000000	0.000000	-.036686	-.360943	-.128605	0.000000
	3	0.000000	0.000000	-.056305	-.340008	-.125932	0.000000
	4	0.000000	0.000000	-.073982	-.315496	-.118948	0.000000
	5	0.000000	-.0000944	-.086847	-.291432	-.121697	0.000000
	6	0.000000	-.0018364	-.105311	-.269165	-.112990	0.000000
	7	0.000000	-.0057796	-.099290	-.225825	-.112644	0.000000
	8	0.000000	-.0105742	-.104015	-.190570	-.102767	-.024554
	9	0.000000	-.0155826	-.084847	-.173900	-.095050	-.029801
	10	0.000000	-.0202374	-.074328	-.122762	-.084076	-.059664
	11	0.000000	-.0243548	-.049979	-.114580	-.069796	-.117749
SPR	12	0.000000	-.0270161	-.030281	-.112842	-.072101	-.075664
	13	0.000000	-.0280431	-.004771	-.111771	-.047358	-.096245
	14	0.000000	-.0275562	-.000000	-.109497	-.066747	-.132367
	15	0.000000	-.0250678	-.000000	-.133160	-.053585	-.157650
	16	0.000000	-.0211388	-.000000	-.125675	-.056022	-.166362
	17	0.000000	-.0150836	-.000000	-.132876	-.070714	-.202671
	18	0.000000	-.0077725	-.000000	-.135730	-.052479	-.204919
	19	0.000000	-.0000000	-.000000	-.151546	-.074946	-.153672
	20	0.000000	-.0000000	-.000001	-.159834	-.058877	-.105979
	21	0.000000	-.0000000	-.000010	-.190547	-.061274	-.095124
	22	-.015084	-.0000000	-.000035	-.202499	-.064622	-.073089
	23	-.030515	-.0000000	-.000038	-.211731	-.072102	-.054210
INV	24	-.035856	-.0000000	-.000019	-.215121	-.073862	-.014060

MAX.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.135115	.0229358	.000000	0.000000	0.000000	.022784
	2	.143121	.0214917	0.000000	0.000000	0.000000	.053865
	3	.156872	.0191937	0.000000	0.000000	0.000000	.088338
	4	.174733	.0156355	0.000000	0.000000	0.000000	.115453
	5	.197199	.0107769	0.000000	0.000000	0.000000	.132331
	6	.219993	.0050186	0.000000	0.000000	0.000000	.114916
	7	.241974	.0000000	.000010	0.000000	0.000000	.126331
	8	.260869	.0000000	.000010	0.000000	0.000000	.091340
	9	.274607	.0000000	.000936	0.000000	0.000000	.084602
	10	.287531	.0000000	.004903	0.000000	.021524	.030295
	11	.292544	.0000000	.014787	0.000000	.000183	.027487
SPR	12	.291825	.0000000	.025672	0.000000	0.000000	.000000
	13	.285187	.0000000	.039991	0.000000	.005965	.000000
	14	.270527	.0000000	.056636	.001005	0.000000	.000000
	15	.250761	.0000010	.080909	0.000000	.054727	.000000
	16	.219552	.0000298	.111450	0.000000	.003535	.000000
	17	.181508	.0002721	.109505	0.000000	0.000000	.000000
	18	.143278	.0012205	.121514	0.000000	.006905	.000000
	19	.102332	.0037398	.123188	0.000000	0.000000	.000000
	20	.075233	.0096665	.116998	0.000000	0.000000	.000000
	21	.057970	.0165990	.100088	0.000000	0.000000	.000000
	22	.046301	.0226486	.082041	0.000000	0.000000	.000000
	23	.041148	.0274006	.052991	0.000000	0.000000	.000000
INV	24	.041400	.0299967	.019345	0.000000	.005340	.000236



MIN-MAX MODAL AMPLITUDES -- CASE 21

LINER THRUST PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	0.	-.13409E+00	-.27856E-01	-.79309E-02	-.55132E-02	-.28575E-02
MAX .16288E+00	.77501E-01	.25984E-04	.11172E-14	.82006E-02	.41233E-02	.57815E-02
LINER MOMENT PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN -.78936E-03	0.	0.	-.34180E-02	-.18430E-02	-.71482E-03	-.23255E-03
MAX .23877E-13	.17823E-03	.26850E-01	.43875E-02	.53630E-03	.28501E-03	.93429E-03
LINER SHEAR PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.20144E-07	-.10691E+00	-.28308E-01	-.58167E-02	-.41874E-02	-.61705E-02
MAX 0.	.90305E-02	0.	.12068E-01	.11167E-01	.51599E-02	.33728E-02
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN -.15230E+00	-.13341E+00	-.10358E+00	-.49911E-01	-.18447E-01	-.11231E-01	-.75270E-02
MAX 0.	0.	0.	.28586E-01	.25168E-01	.18470E-01	.22103E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.53526E-01	0.	0.	-.14654E-01	-.10561E-01	-.25708E-01
MAX 0.	.15908E-02	.12614E+00	.43636E-01	.17431E-01	.14717E-01	.12804E-01

CASE 21

CROWN THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\* MODES 0-5 MODES 0-6  
SRSS .015200 .045179 .009113 .002269 .002684 .001291  
MIN. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. 1.205499 1.714162 1.219650 1.022254 .992012 .997008 1.002689  
INPUT  
VARIABLE  
.23398E-02  
0.  
.13512E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\* MODES 0-5 MODES 0-6  
SRSS .061223 .060877 .003424 .001964 .001591 .000020  
MIN. -.000789 -.000690 0.000000 0.000000 0.000000 0.000000  
MAX. .000000 .000001 1.133791 1.005561 1.008489 .994970 .996325  
INPUT  
VARIABLE  
.46306E-03  
0.  
.22936E-01

CROWN SST STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\* MODES 0-5 MODES 0-6  
SRSS .019603 .016697 .001822 .004782 .001206 .001401  
MIN. .006918 .707442 .883410 1.005506 1.024869 .998059  
MAX. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.65069E-02  
-.37424E+00  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\* MODES 0-5 MODES 0-6  
SRSS .010968 .010139 .005076 .005650 .003561 .002180  
MIN. 0.000000 0.000000 -.000000 -.000000 -.000000 0.000000  
MAX. .558147 .571365 .962008 .968740 .991945 .995639 1.002590  
INPUT  
VARIABLE  
.55463E-02  
0.  
.29182E+00

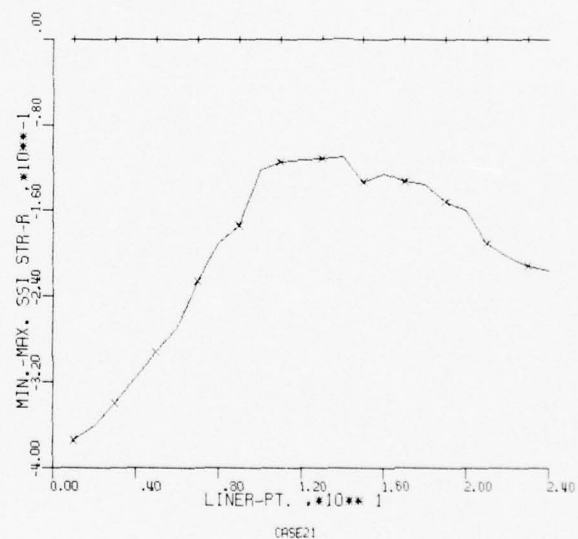
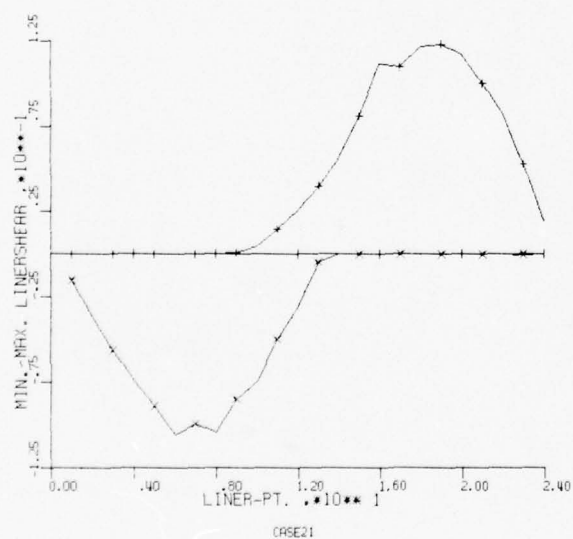
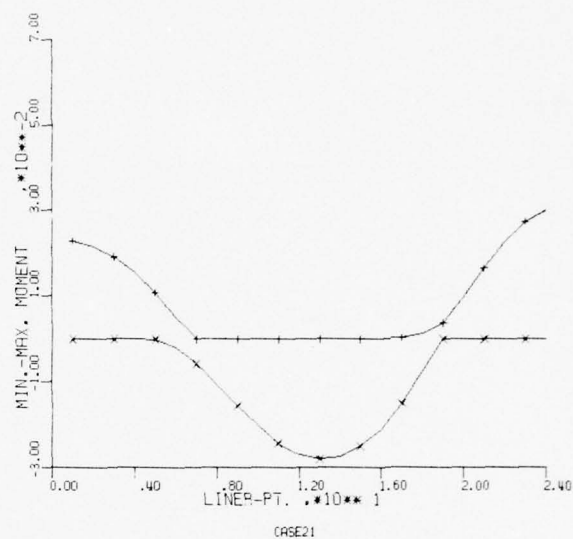
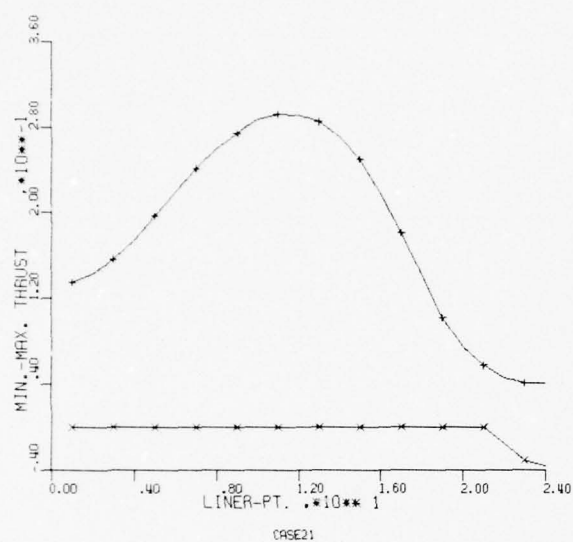
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .061951 .006345 .006081 .003164 .002492 .001872  
MIN. .029218 .028920 .986387 .991248 .989028 .999048  
MAX. .000000 .000000 0.000000 0.000000 .000000 .000000  
INPUT  
VARIABLE  
.53548E-03  
-.27016E-01  
.41365E-41

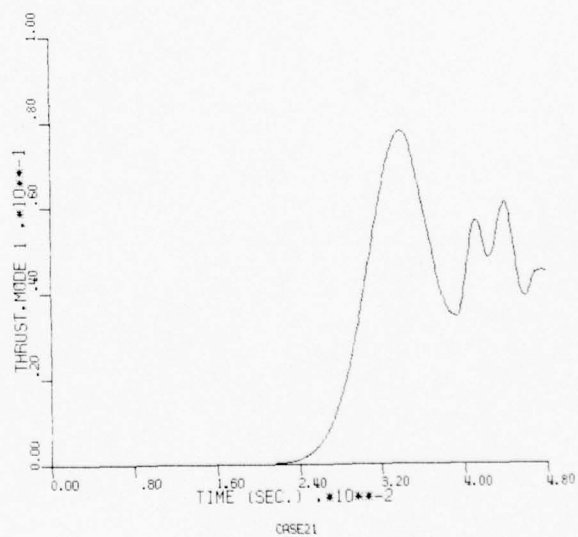
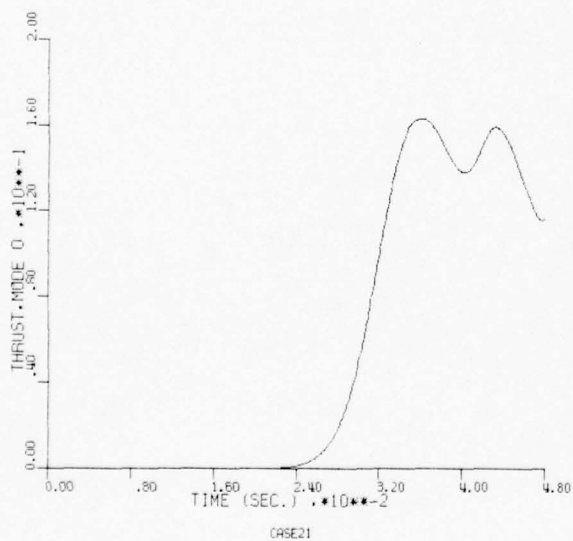
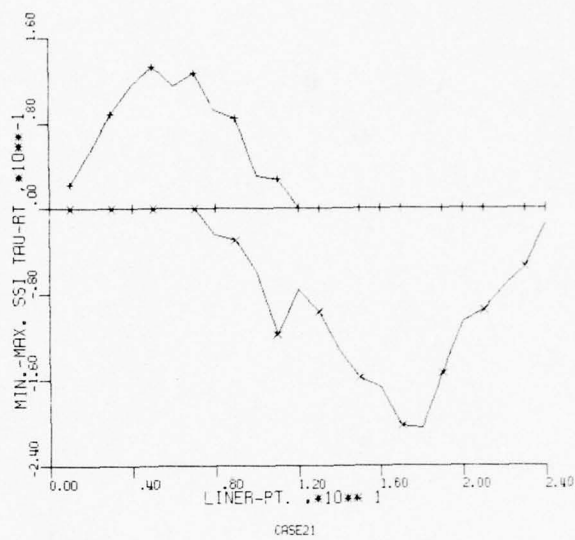
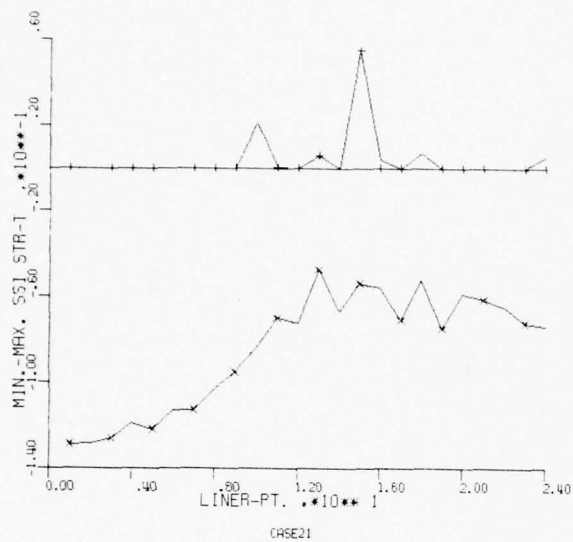
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .078383 .079131 .006375 .001800 .002036 .002315  
MIN. 1.349655 1.108102 1.125646 1.114309 .908216 .881822  
MAX. 0.000000 0.000000 .002864 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.16564E-02  
-.11284E+00  
0.

INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .253764 .129959 .018987 .009274 .005389 .006154  
MIN. 0.000000 .000198 1.321763 1.156992 1.098367 .980546  
MAX. 3.934329 2.783154 .550953 .889329 .900668 1.012972  
INPUT  
VARIABLE  
.56657E-03  
-.35856E-01  
.41400E-01

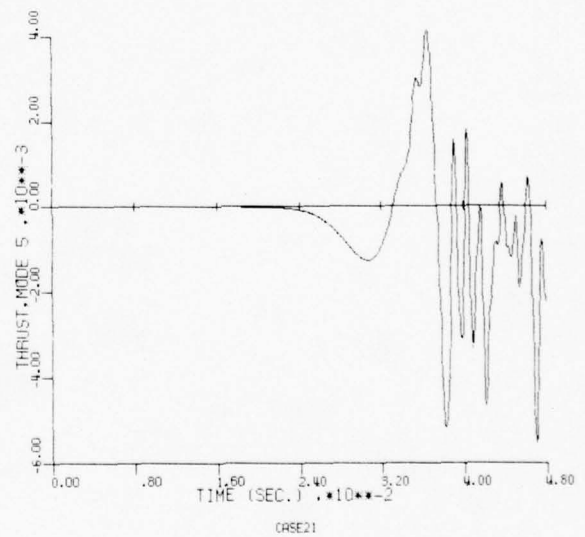
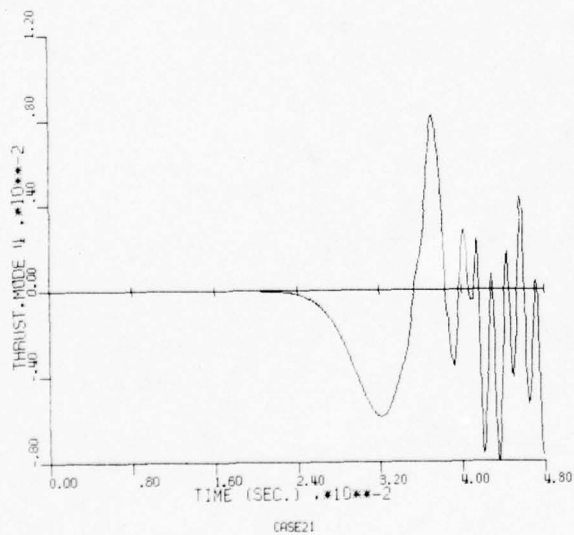
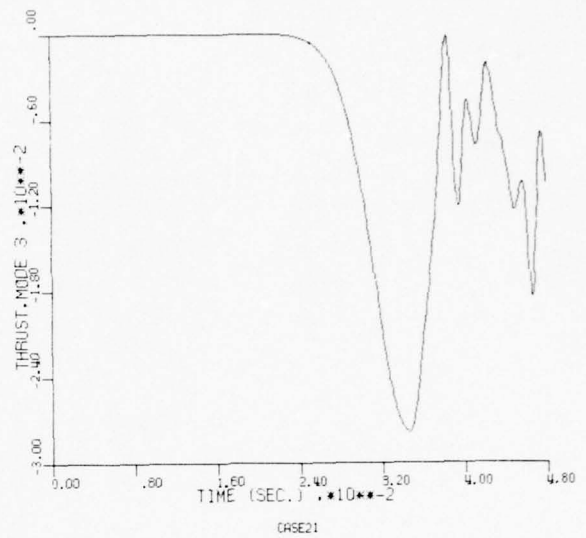
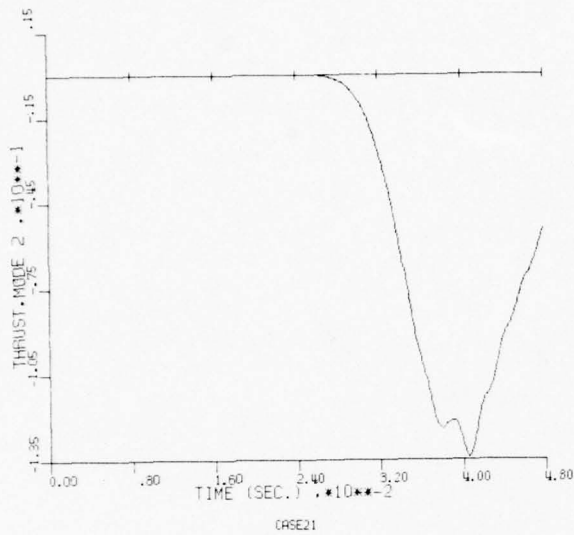
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .058901 .059234 .002679 .001196 .002052 .000841  
MIN. -.000789 -.000943 0.000000 -.000030 0.000000 0.000000  
MAX. .000000 0.000000 .862541 .973329 .985475 .994330  
INPUT  
VARIABLE  
.48093E-03  
-.18146E-21  
.29997E-01

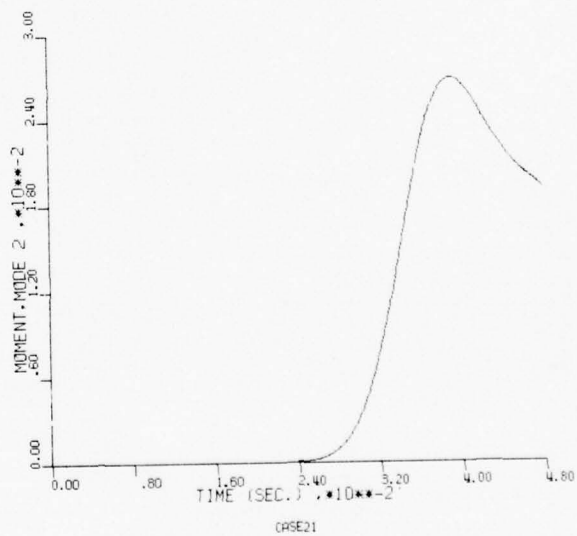
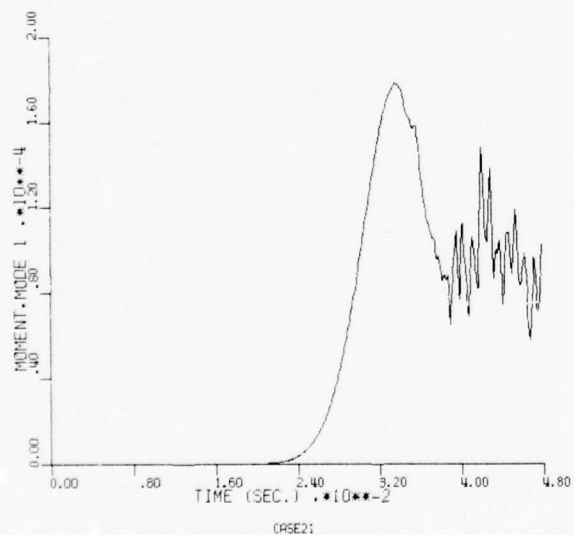
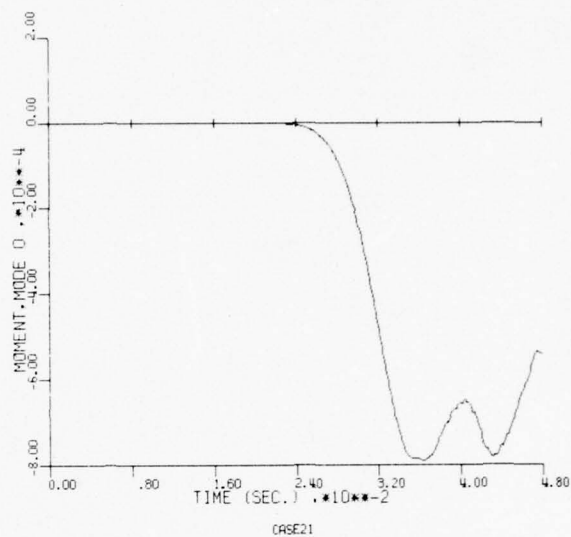
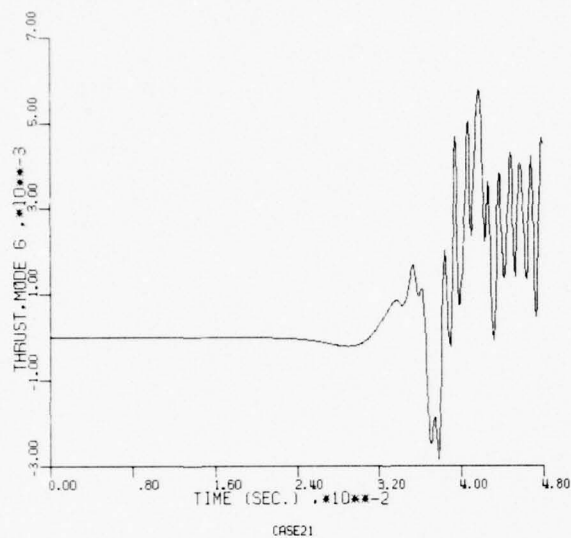
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .023210 .028867 .007208 .001443 .000322 .00062  
MIN. .707962 .543991 1.007289 1.029547 .994368 1.021557  
MAX. 0.000000 .025760 0.000000 .007901 0.000000 .000000  
INPUT  
VARIABLE  
.33406E-02  
-.21512E+00  
0.

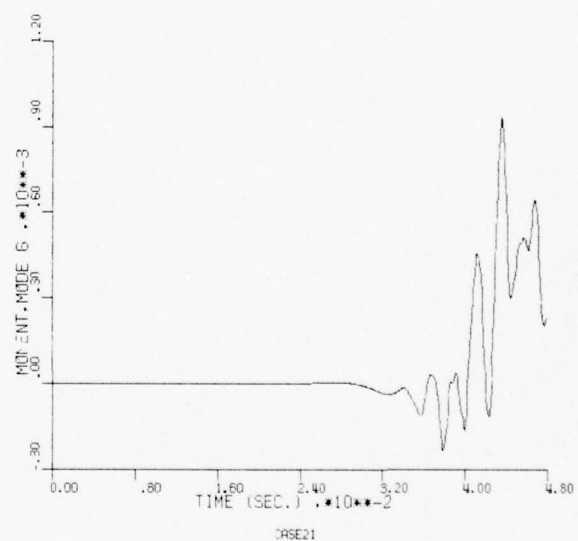
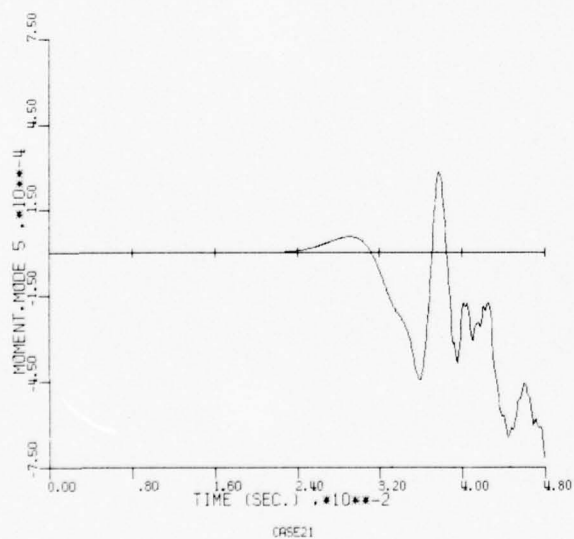
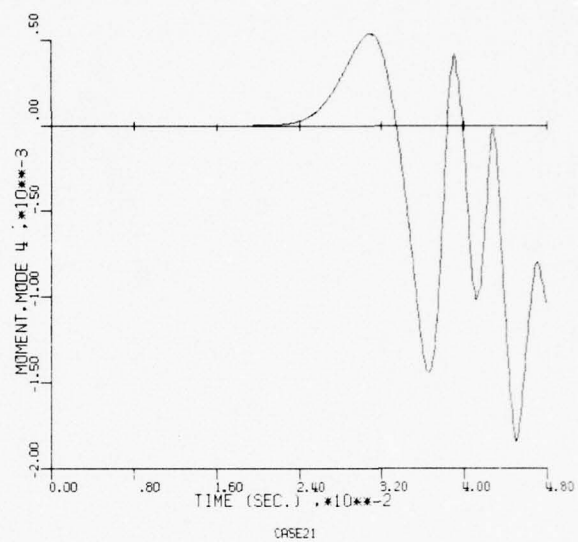
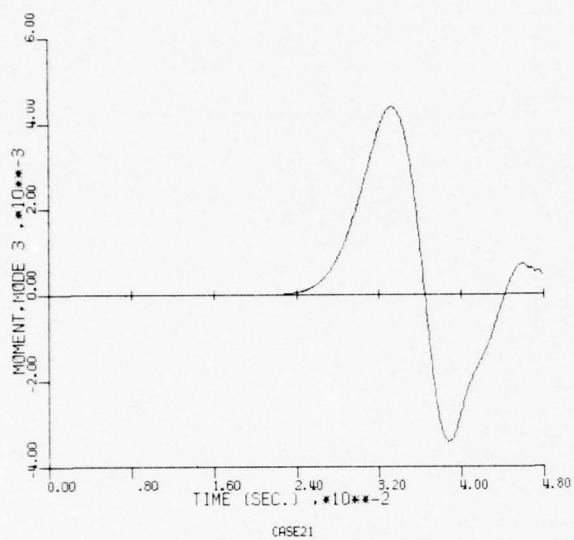


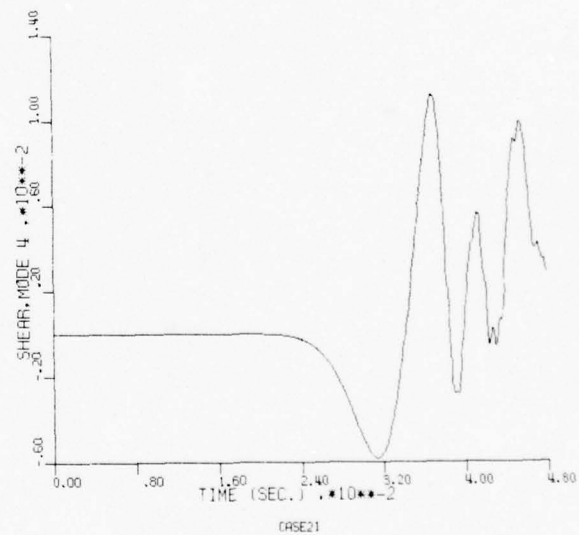
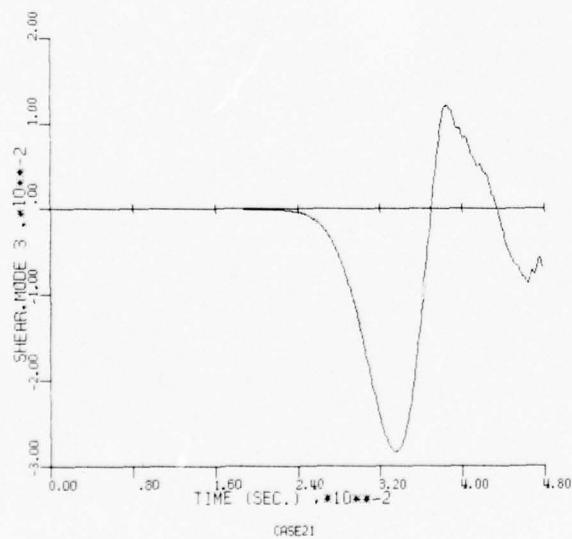
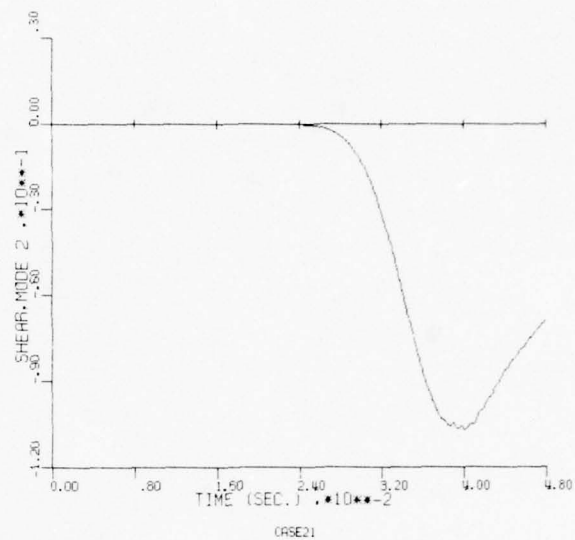
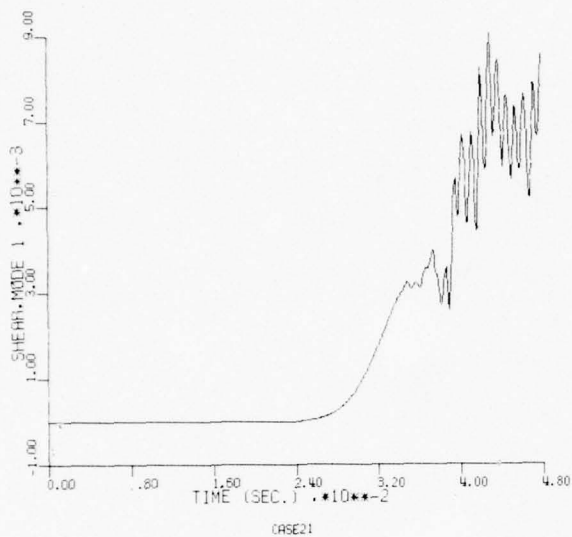


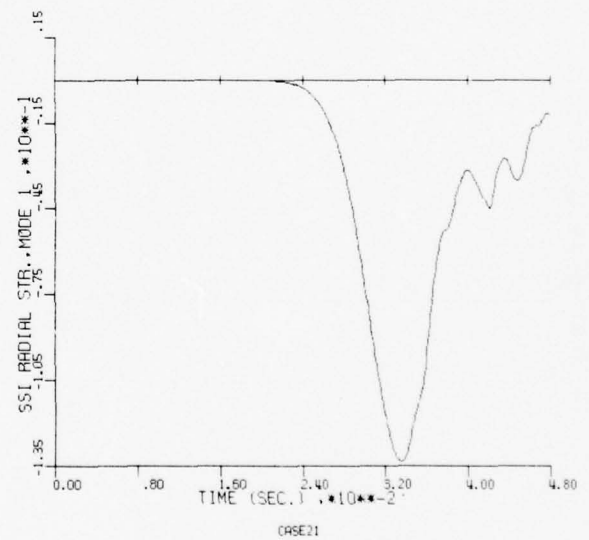
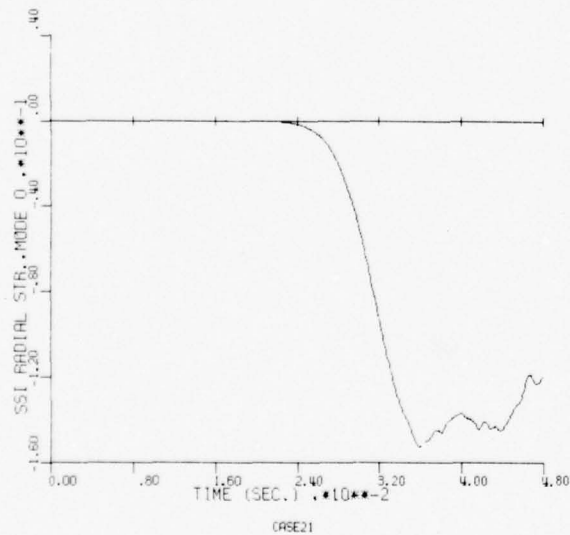
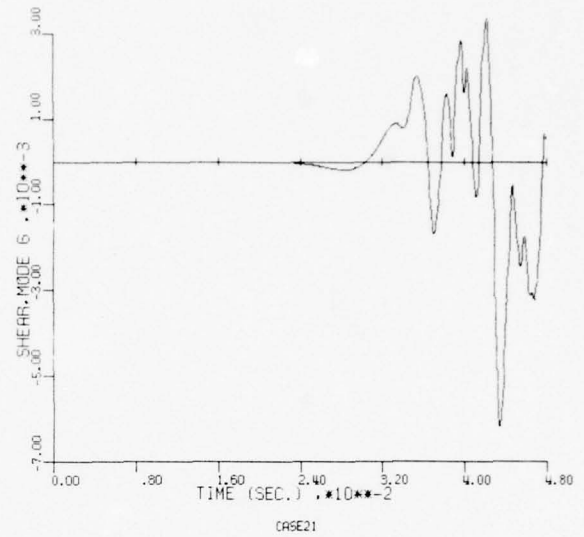
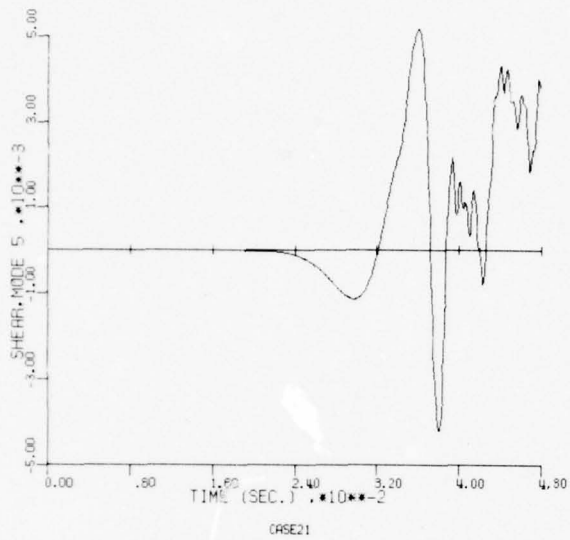




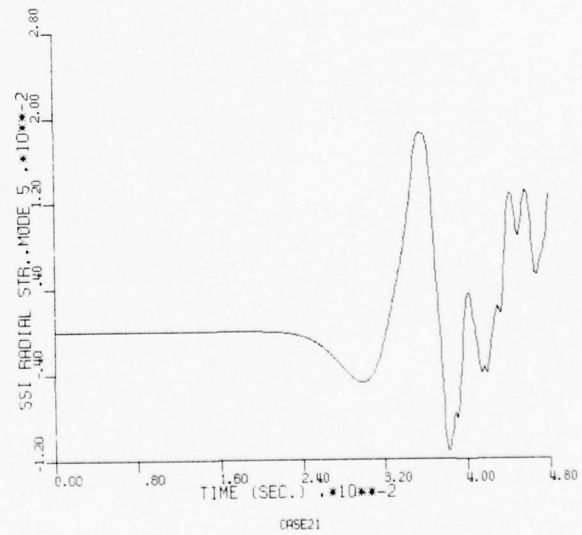
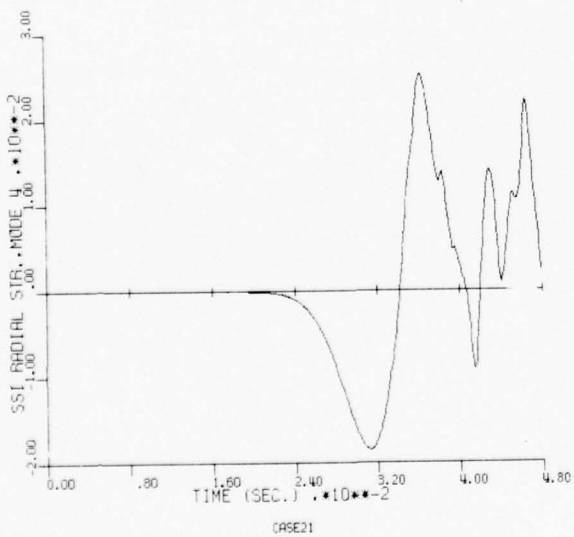
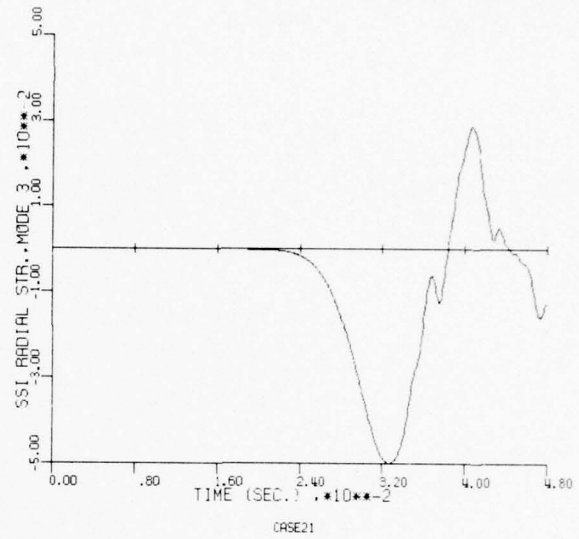
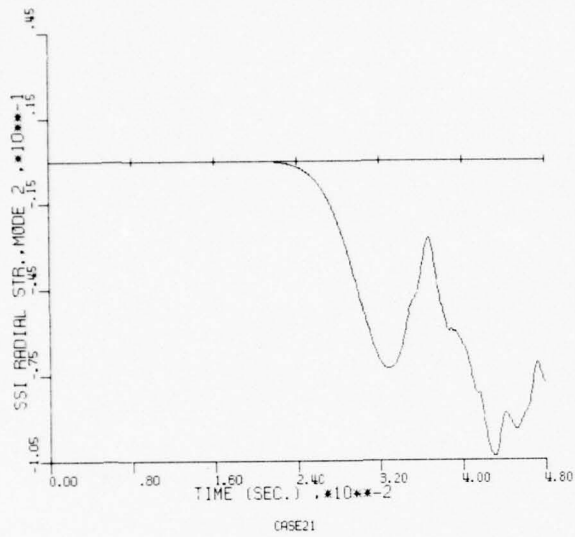


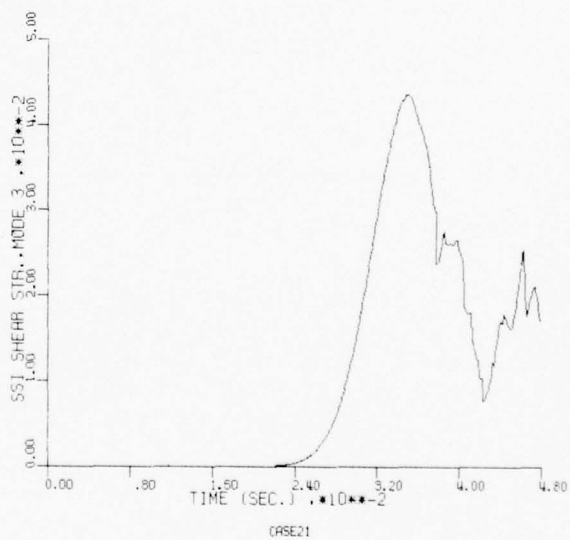
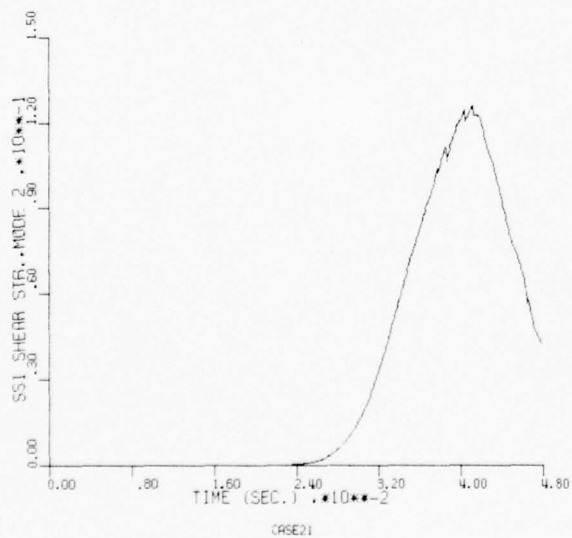
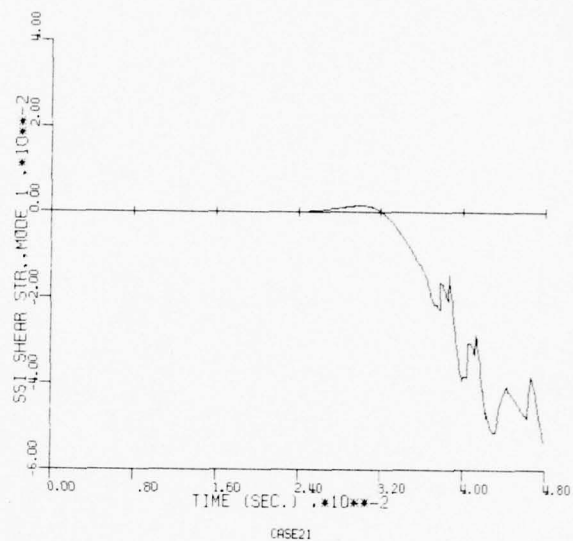
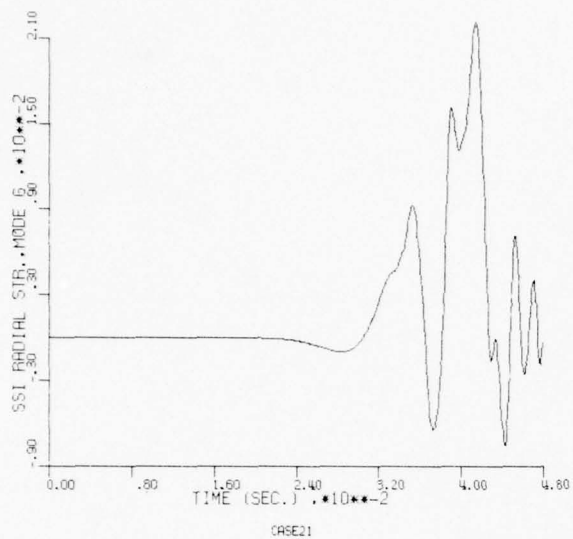


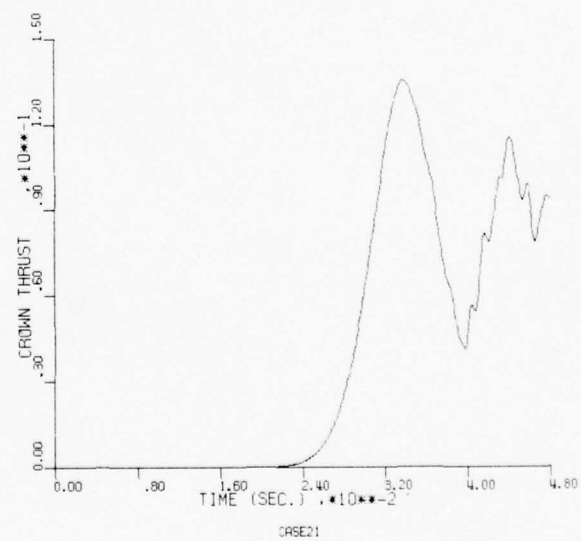
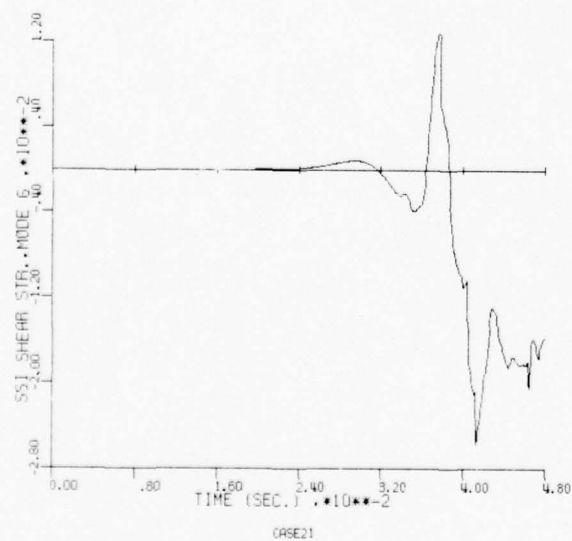
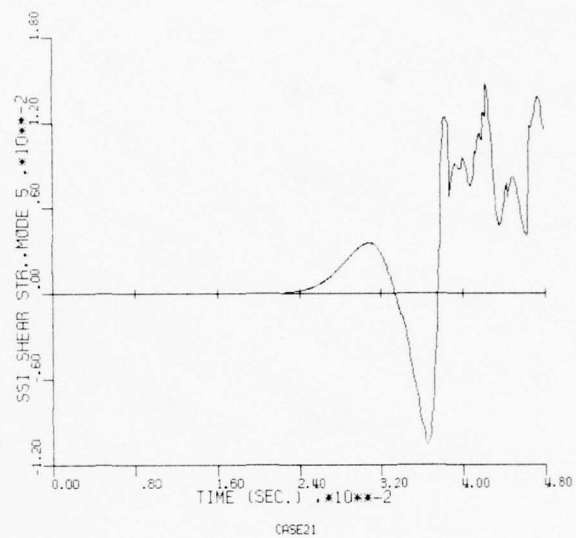
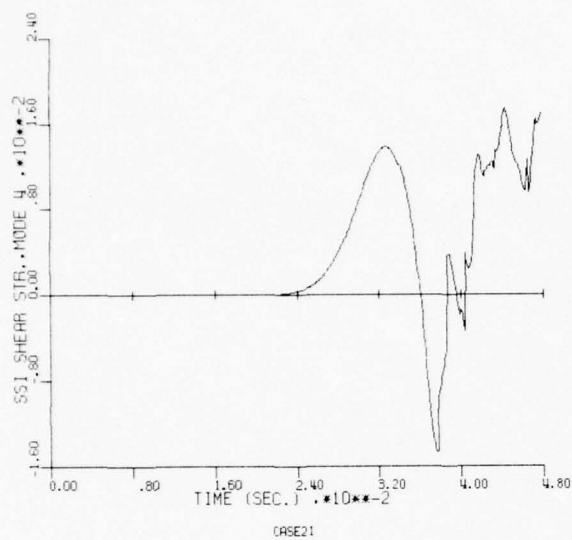


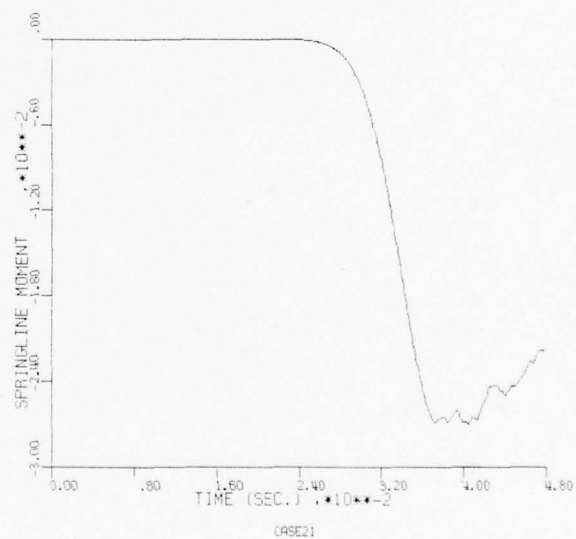
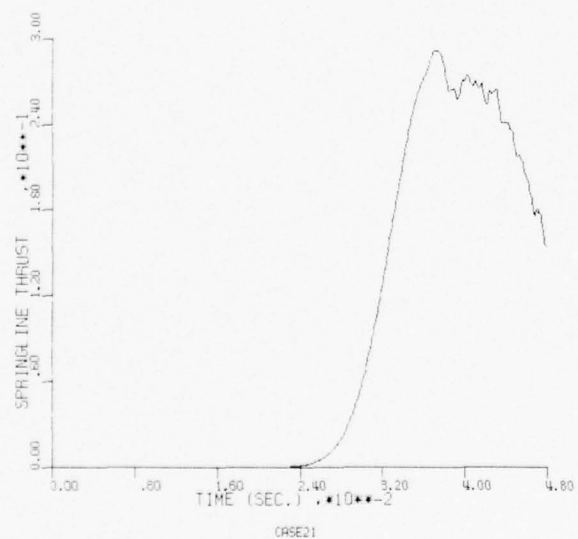
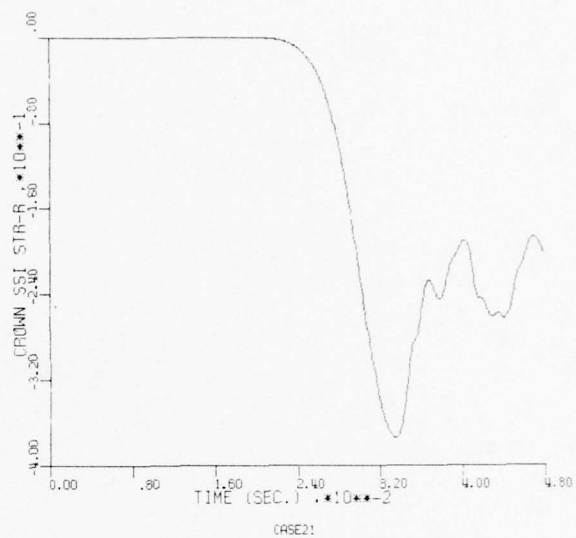
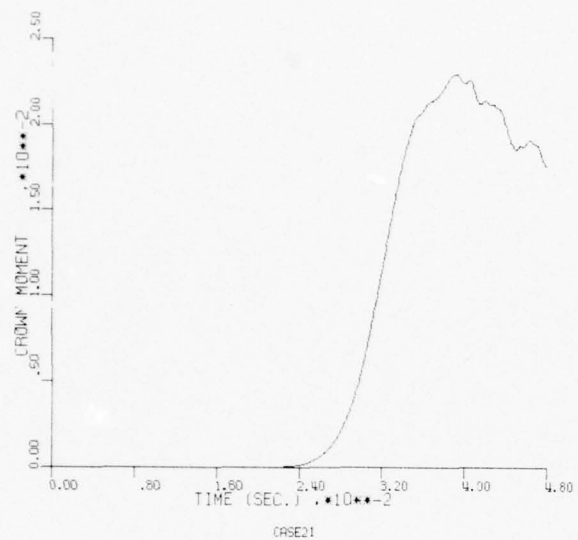


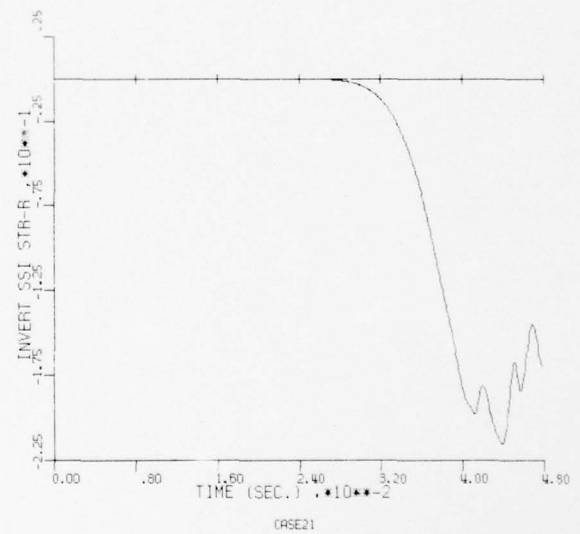
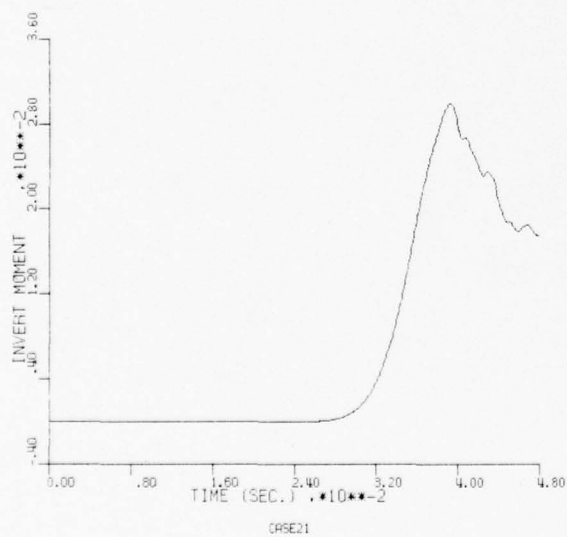
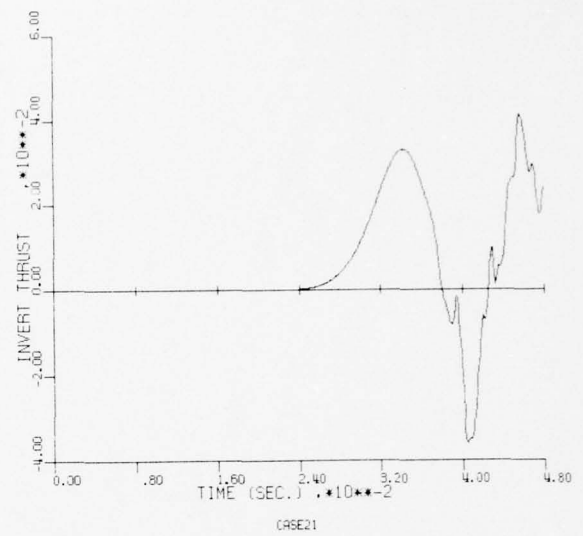
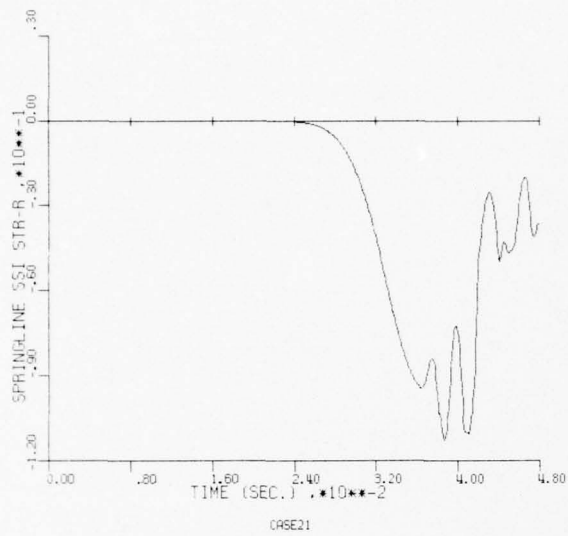














CASE22

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MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.015683	-.363428	-.152127	-.000000
	2	0.000000	0.000000	-.032511	-.347174	-.154383	0.000000
	3	0.000000	0.000000	-.058483	-.323294	-.128255	0.000000
	4	0.000000	0.000000	-.079603	-.306192	-.109968	0.000000
	5	0.000000	-.0002135	-.091154	-.285331	-.114383	0.000000
	6	0.000000	-.0021451	-.100870	-.244038	-.105754	-.005335
	7	0.000000	-.0058403	-.098053	-.219636	-.108064	-.010843
	8	0.000000	-.0100540	-.104564	-.221006	-.099339	-.021755
	9	0.000000	-.0147151	-.086336	-.179382	-.093949	-.032703
SPR	10	0.000000	-.0203539	-.080183	-.160303	-.083108	-.043897
	11	0.000000	-.0257634	-.049501	-.139231	-.071528	-.040314
	12	0.000000	-.0281544	-.024211	-.110239	-.089602	-.064475
	13	0.000000	-.0287857	0.000000	-.099986	-.047695	-.074612
	14	0.000000	-.0276260	-.000000	-.103647	-.059599	-.099198
	15	0.000000	-.0252073	-.000000	-.115045	-.083991	-.119962
	16	0.000000	-.0205035	-.000000	-.118959	-.060173	-.110978
	17	0.000000	-.0142916	-.000000	-.128709	-.068995	-.121248
	18	0.000000	-.0068881	-.000000	-.131652	-.053131	-.123871
	19	0.000000	-.0000000	-.000000	-.164707	-.057050	-.124983
	20	0.000000	-.0000000	-.000000	-.180571	-.054555	-.124447
	21	0.000000	-.0000000	-.000035	-.199866	-.067557	-.109374
	22	0.000000	-.0000000	-.000124	-.207084	-.072069	-.078385
	23	-.008018	-.0000000	-.000135	-.217449	-.078499	-.059818
INV	24	-.015726	-.0000000	-.000063	-.224588	-.080534	-.012848

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.129399	.0229571	.000000	0.000000	0.000000	.029519
	2	.135792	.0216888	0.000000	0.000000	0.000000	.062435
	3	.149650	.0194661	0.000000	0.000000	0.000000	.097712
	4	.165740	.0156260	0.000000	0.000000	0.000000	.114454
	5	.185981	.0108641	0.000000	0.000000	0.000000	.132421
	6	.208628	.0050005	0.000000	0.000000	.004776	.124797
	7	.241272	.0000000	.000000	0.000000	0.000000	.134552
	8	.271110	.0000000	.000034	0.000000	.003747	.101264
	9	.295016	.0000000	.002069	0.000000	.019933	.103795
SPR	10	.316134	.0000000	.007451	.001902	.017893	.034792
	11	.318516	.0000000	.017721	.009590	0.000000	.030260
	12	.321804	.0000000	.027976	0.000000	0.000000	.000000
	13	.315803	.0000000	.040218	.018196	0.000000	.000000
	14	.297306	.0000000	.052356	.003056	0.000000	.000000
	15	.272224	.0000034	.073445	0.000000	0.000000	.000000
	16	.244464	.0000916	.090268	0.000000	0.000000	.000000
	17	.212231	.0005480	.107115	0.000000	0.000000	.000000
	18	.176565	.0016381	.115359	0.000000	0.000000	.000000
	19	.139440	.0046542	.116944	0.000000	0.000000	.000000
	20	.108028	.0100036	.110035	0.000000	0.000000	.000000
	21	.078786	.0162950	.093445	0.000000	0.000000	.000000
	22	.057910	.0221634	.072543	0.000000	.023988	.000000
	23	.043120	.0262470	.045083	0.000000	.025757	.000000
INV	24	.041543	.0284229	.016857	0.000000	.036910	.009674

MIN-MAX MODAL AMPLITUDES - CASE22

LINER THRUST PEAK MODAL AMPLITUDES						
MIN	0.	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4
MAX	.18687E+00	0.	.74487E-01	.13489E+00	.27844E-01	.78214E-02
			.89433E-04	.13242E-14	.50578E-02	.27961E-02
					.37874E-02	.25858E-02
LINER MOMENT PEAK MODAL AMPLITUDES						
MIN	.93612E-03	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4
MAX	.33036E-13	0.	.17175E-03	0.	.29730E-02	.21823E-02
			.27202E-01	.47244E-02	.66329E-03	.77373E-03
					.24348E-03	.30591E-03
						.13333E-03
LINER SHEAR PEAK MODAL AMPLITUDES						
MIN	0.	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4
MAX	0.	0.	.61765E-07	.10811E+00	.29704E-01	.67487E-02
			.75263E-02	0.	.83002E-02	.13250E-01
						.30726E-02
						.64833E-02
SSI RADIAL STR, PEAK MODAL AMPLITUDES						
MIN	.16793E+00	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4
MAX	0.	0.	.12894E+00	.10428E+00	.49989E-01	.20453E-01
			.17997E-02	0.	.22724E-01	.40320E-01
						.11151E-01
						.18096E-01
SSI SHEAR STR, PEAK MODAL AMPLITUDES						
MIN	0.	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4
MAX	0.	0.	.47494E-01	0.	0.	.59390E-02
			.22460E-02	.11664E+00	.42964E-01	.20248E-01
						.94165E-02
						.13041E-01
						.68324E-02
						.68825E-02

CASE22

CROWN THRUST

```

*****
MODE 0  MODES 0=1  MODES 0=2  MODES 0=3  MODES 0=4  MODES 0=5  MODES 0=6
SRSS    .018559    .014652    .006186    .002558    .000200    .000201
MIN      0.000000    0.000000    0.000000    0.000000    0.000000    0.000000
MAX      1.444159    1.802208    1.234179    1.027244    .989469    .993129
                                     .999526
                                     .12940E+00
INPUT
VARIABLE .23377E+02
0.
.12940E+00

```

CROWN MOMENT

```

*****
MODE 0  MODES 0=1  MODES 0=2  MODES 0=3  MODES 0=4  MODES 0=5  MODES 0=6
SRSS    .059048    .002990    .001864    .000790    .000870    .000279
MIN      .000936    .000000    0.000000    0.000000    0.000000    0.000000
MAX      .000000    .000002    1.138016    1.027267    1.010665    1.003408
                                     .22957E+01
INPUT
VARIABLE .46664E+03
0.
.22957E+01

```

CROWN SSI STR-R

```

*****
MODE 0  MODES 0=1  MODES 0=2  MODES 0=3  MODES 0=4  MODES 0=5  MODES 0=6
SRSS    .023047    .000369    .005846    .002453    .005050    .002271
MIN      .462065    .878617    .984535    1.012071    1.004042    .994226
MAX      0.000000    0.000000    0.000000    0.000000    0.000000    0.000000
                                     .63642E+02
                                     .36343E+00
                                     0.
INPUT
VARIABLE
.63642E+02
.36343E+00
0.

```

SPRINGLINE THRUST

```

*****
MODE 0  MODES 0=1  MODES 0=2  MODES 0=3  MODES 0=4  MODES 0=5  MODES 0=6
SRSS    .011147    .001752    .002449    .000948    .000561    .000561
MIN      0.000000    .000000    .000000    .000000    .000000    .000000
MAX      .580702    .997225    1.003868    1.000798    1.001019    1.001370
                                     .56511E+02
                                     0.
                                     .32180E+00
INPUT
VARIABLE
.56511E+02
0.
.32180E+00

```

SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODES 0=3  
SRSS .050646 .050660 .002617 .001786  
MIN. .033249 .033083 .990427 .971697  
MAX. .000000 .000000 0.000000 0.000000  
VARIABLE \*\*\*\*\* MODES 0=4 MODES 0=5 MODES 0=6  
INPUT .54207E+03  
VARIABLE .28154E+01  
INPUT .41730E+41

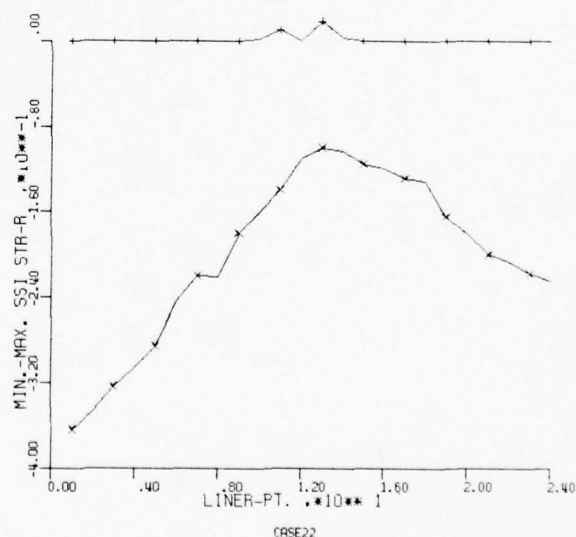
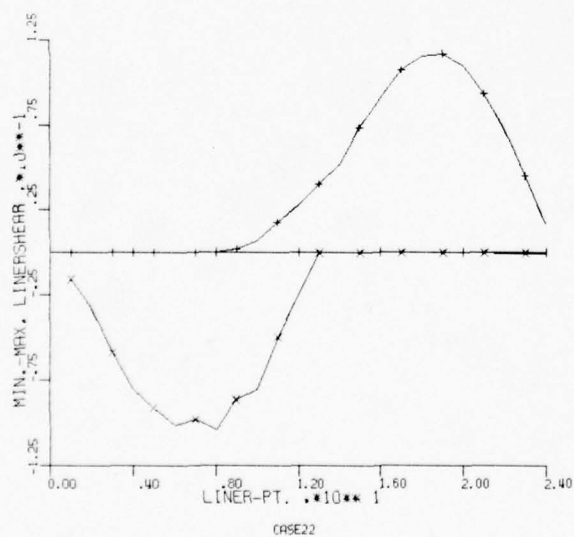
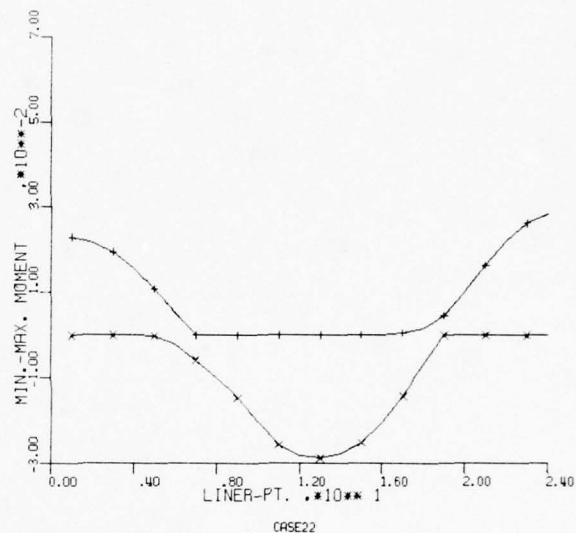
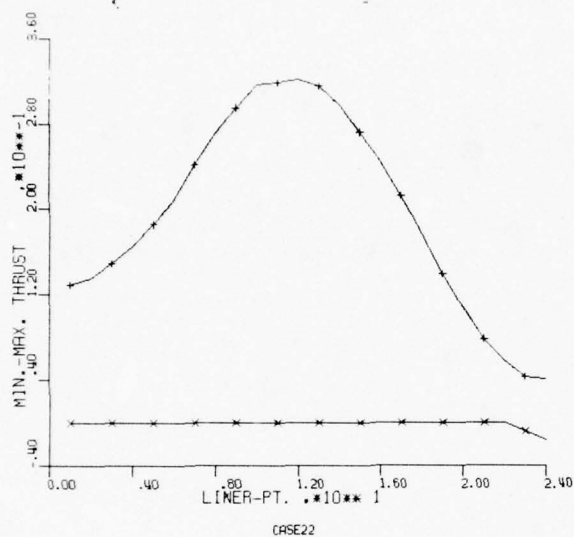
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODES 0=3  
SRSS .089272 .090296 .009436 .001948  
MIN. 1.523308 1.574749 1.085603 1.105849  
MAX. 0.000000 0.000000 .001625 .005371  
VARIABLE \*\*\*\*\* MODES 0=4 MODES 0=5 MODES 0=6  
INPUT .15447E+02  
VARIABLE .11024E+00  
INPUT 0.

INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODES 0=3  
SRSS .167852 .075681 .030557 .000074  
MIN. 0.000000 .001560 1.085406 .600874  
MAX. 1.498321 3.802438 .702177 1.001348  
VARIABLE \*\*\*\*\* MODES 0=4 MODES 0=5 MODES 0=6  
INPUT .64925E+03  
VARIABLE .15726E+01  
INPUT .41543E+01

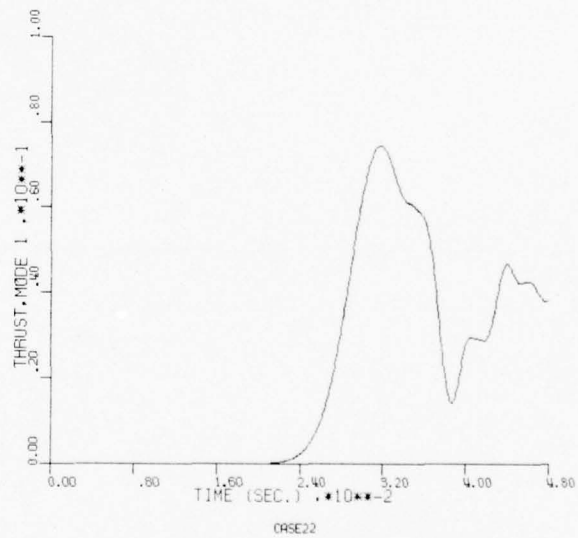
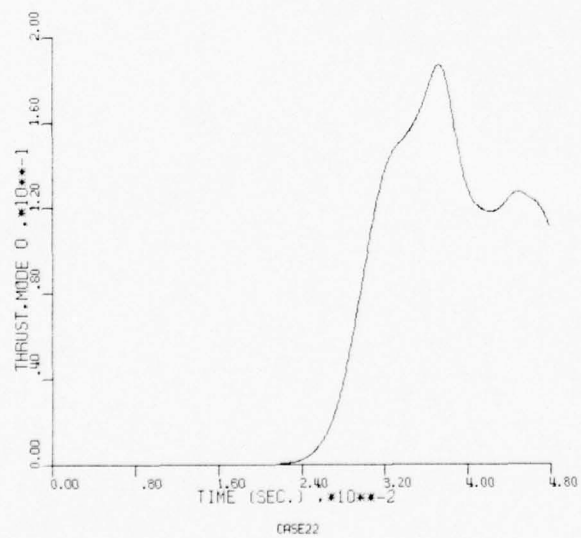
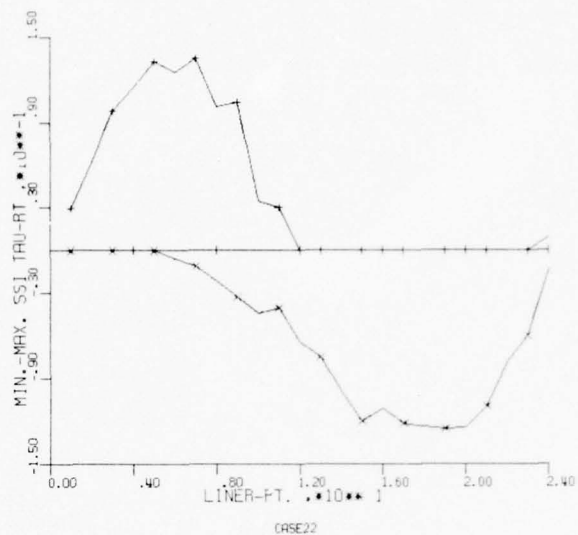
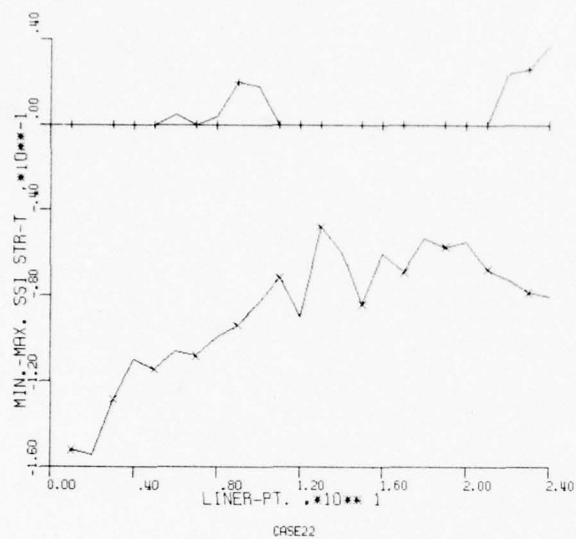
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODES 0=3  
SRSS .048002 .048248 .006840 .002049  
MIN. .000936 .001014 0.000000 .000091  
MAX. .000000 0.000000 .911497 1.009548  
VARIABLE \*\*\*\*\* MODES 0=4 MODES 0=5 MODES 0=6  
INPUT .47274E+03  
VARIABLE .19851E+21  
INPUT .28423E+01

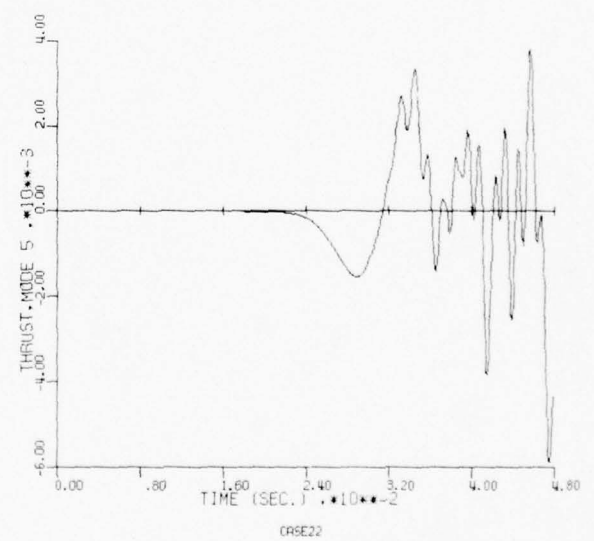
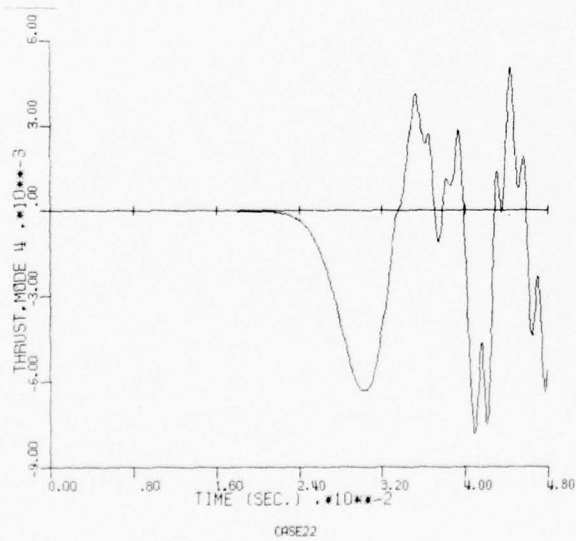
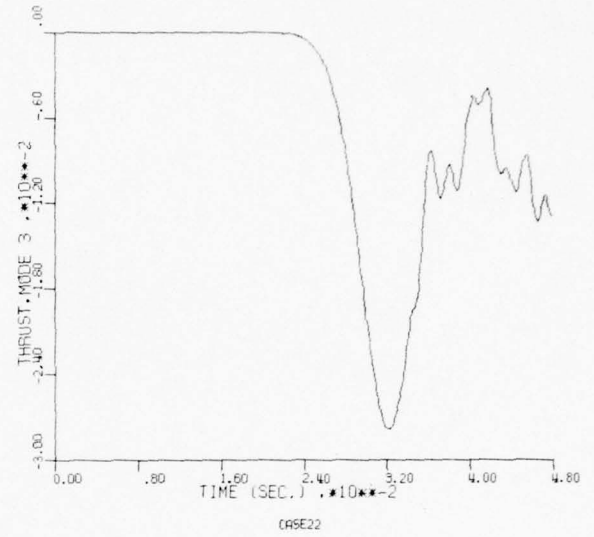
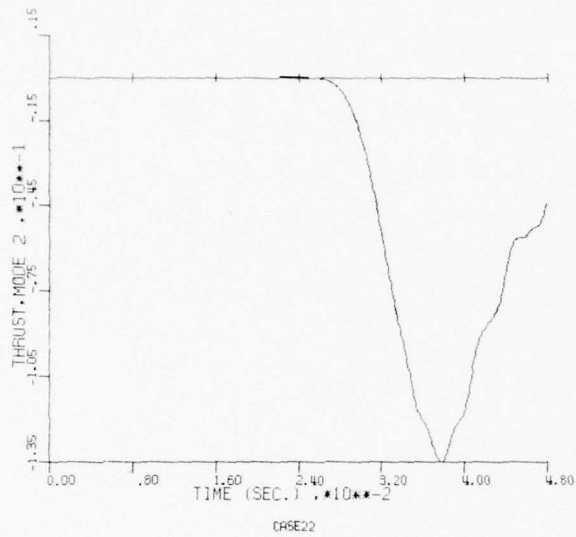
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODES 0=3  
SRSS .001912 .008880 .027200 .017132  
MIN. .747713 .624371 .990329 1.022081  
MAX. 0.000000 .030068 0.000000 .010640  
VARIABLE \*\*\*\*\* MODES 0=4 MODES 0=5 MODES 0=6  
INPUT .34618E+02  
VARIABLE .22459E+00  
INPUT 0.

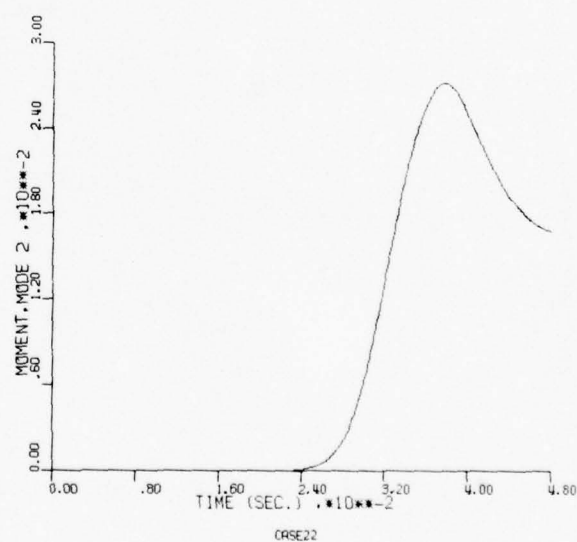
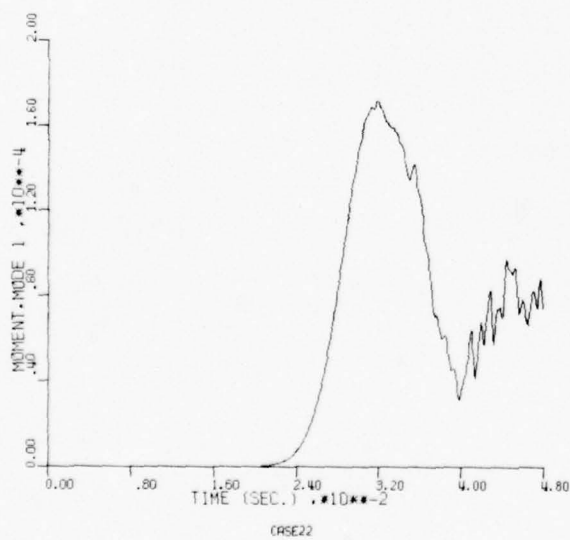
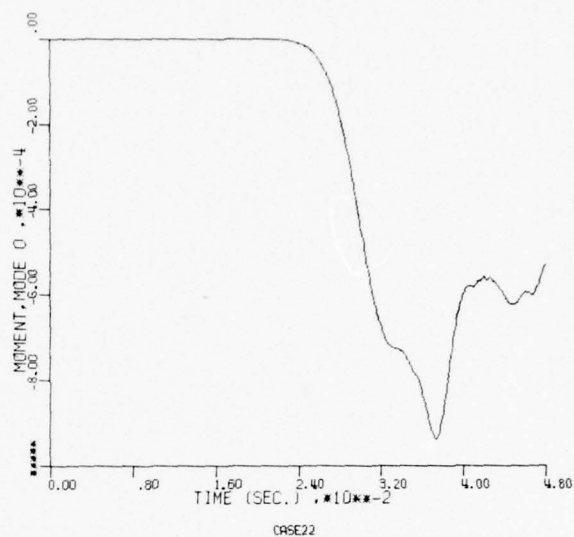
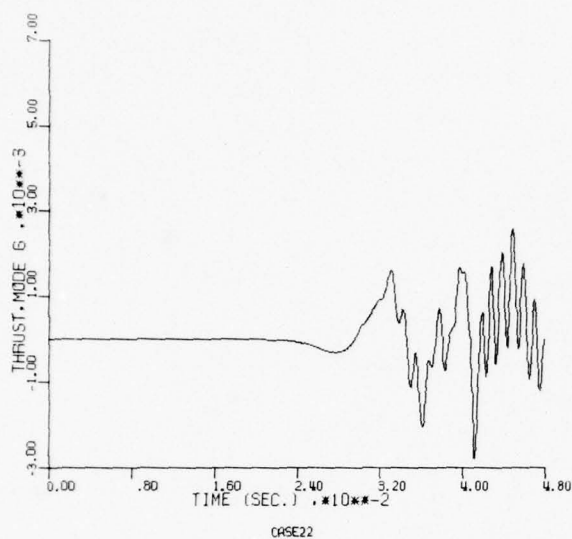


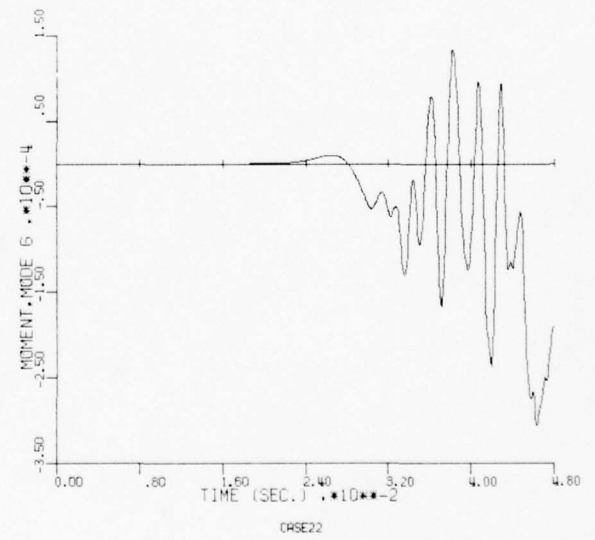
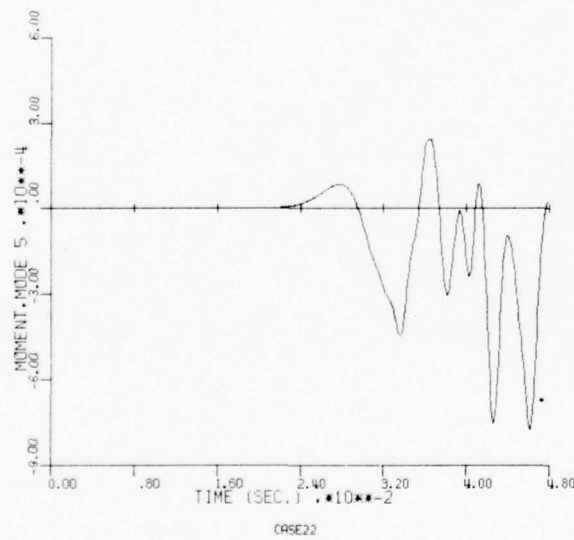
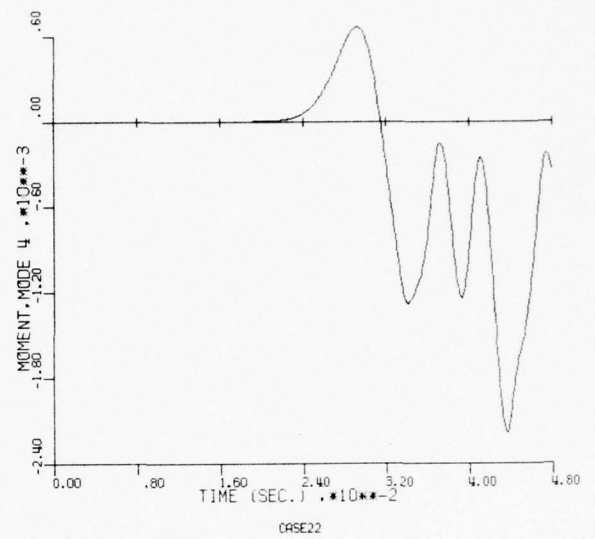
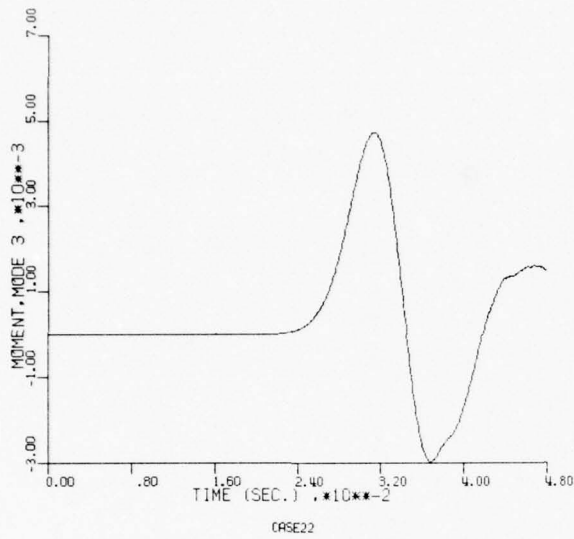


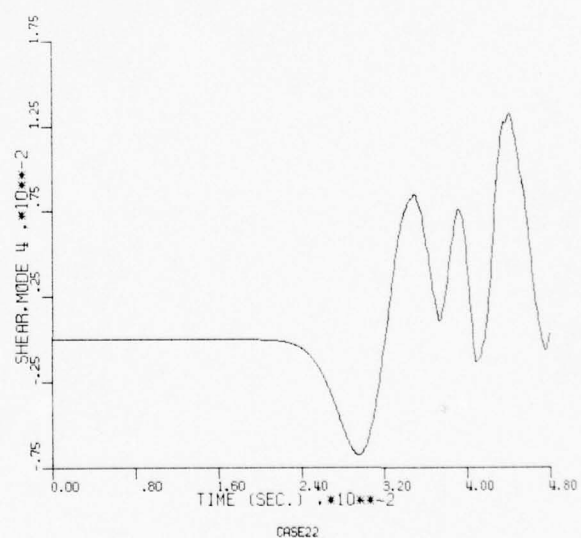
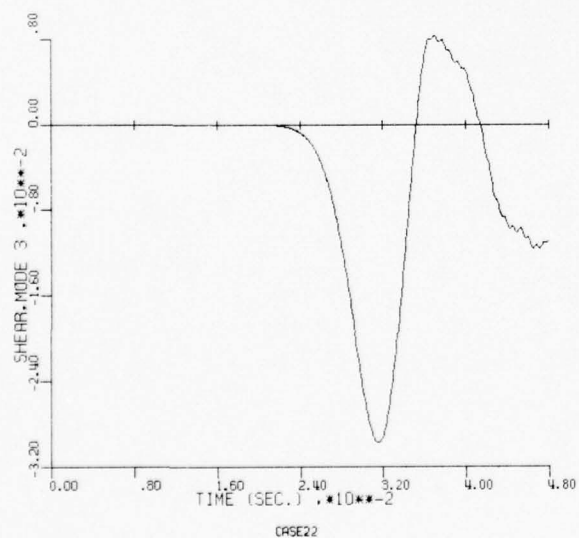
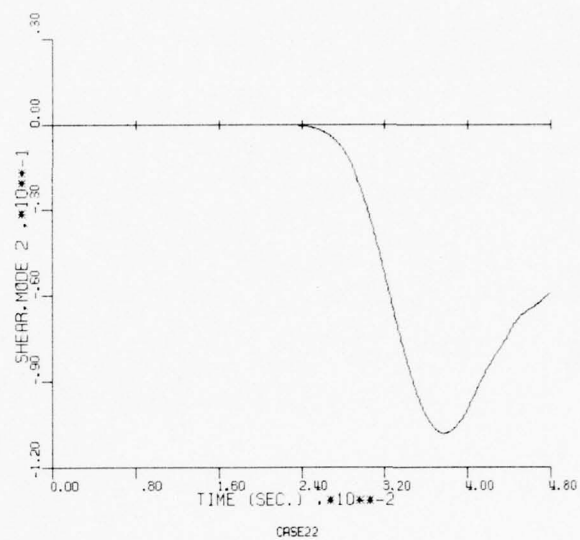
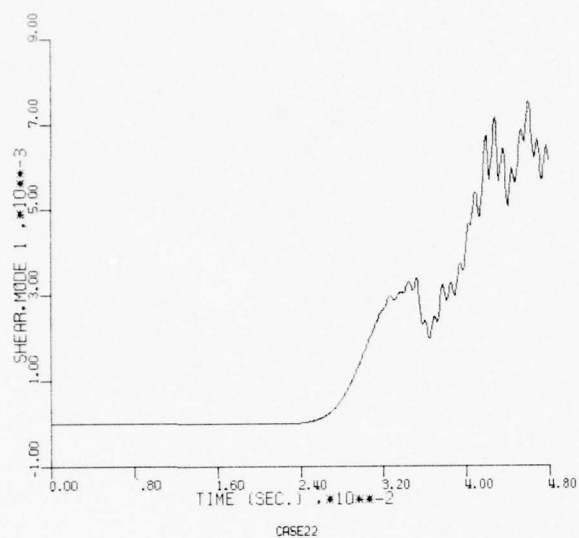




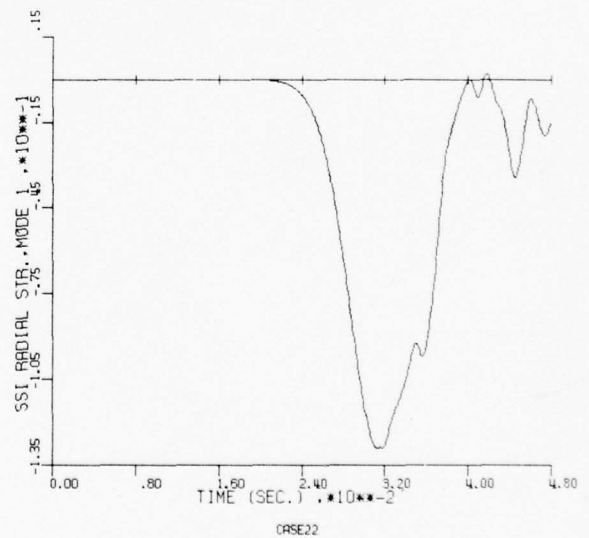
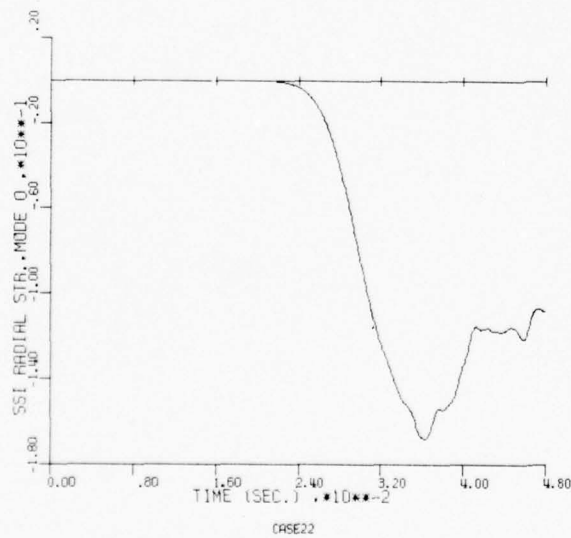
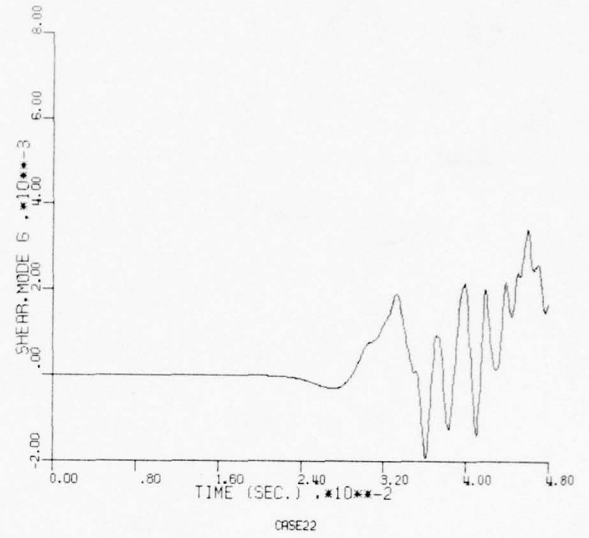
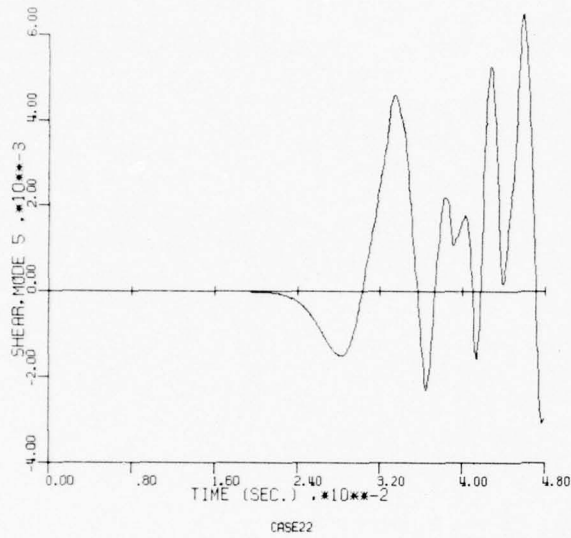


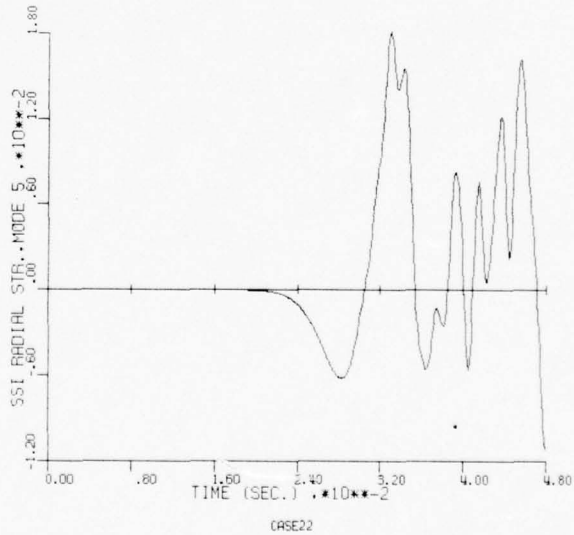
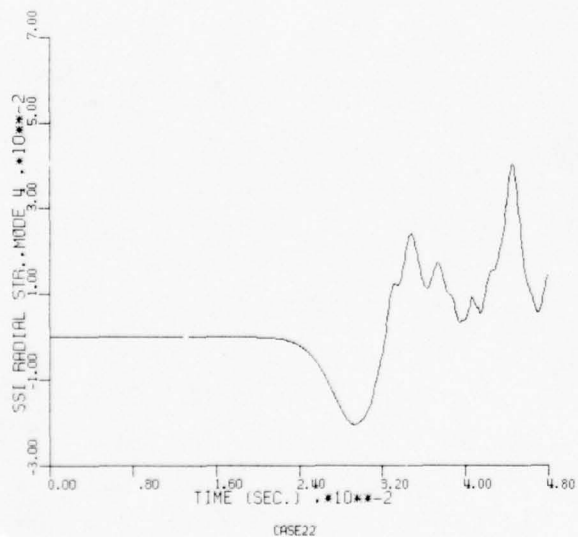
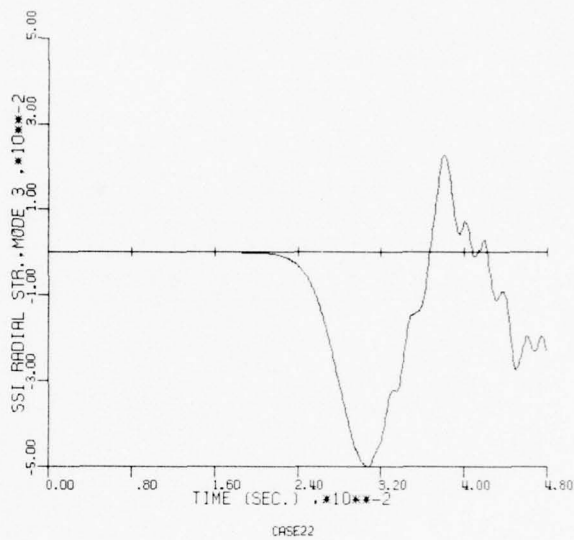
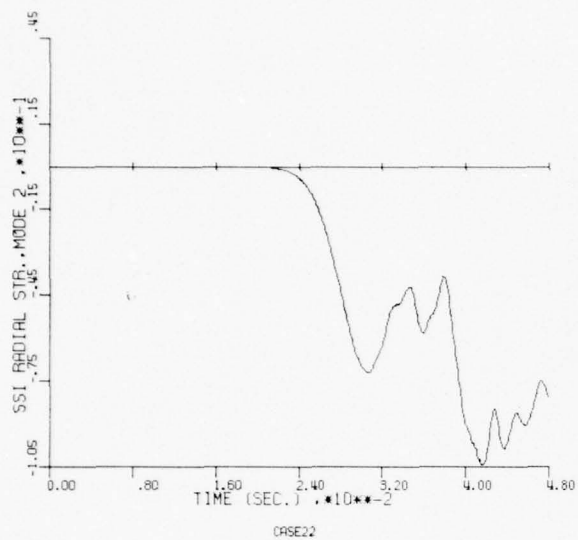


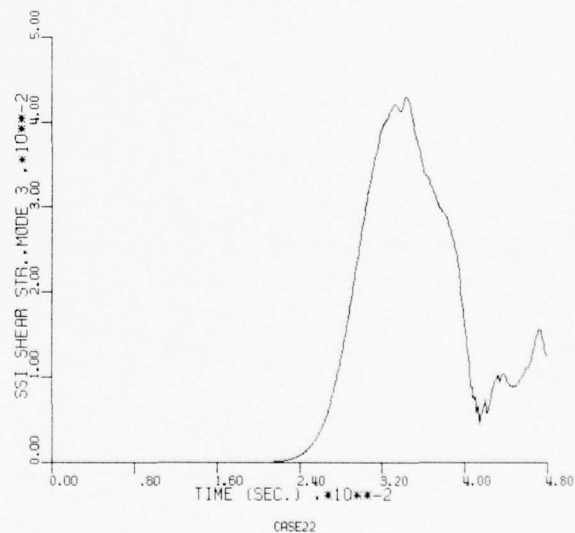
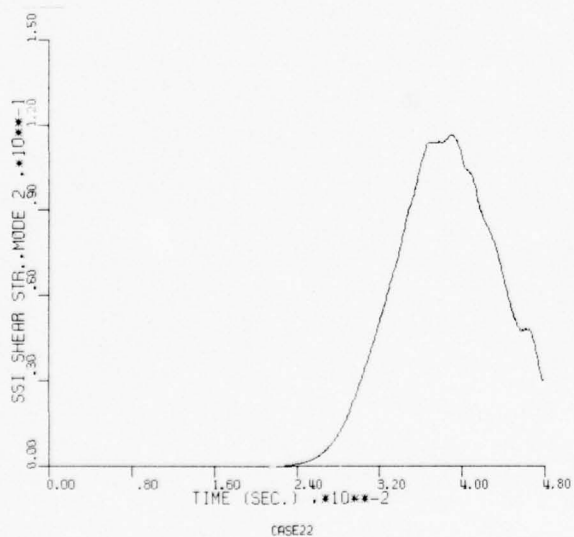
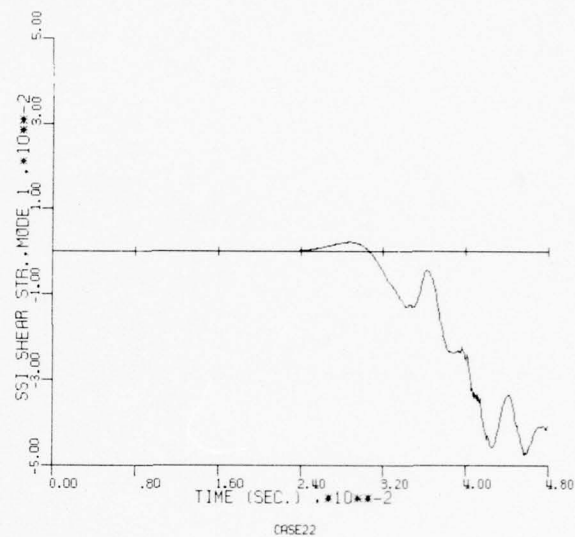
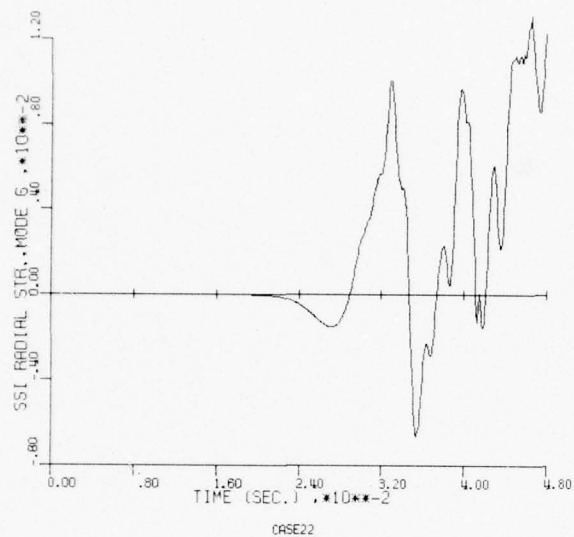


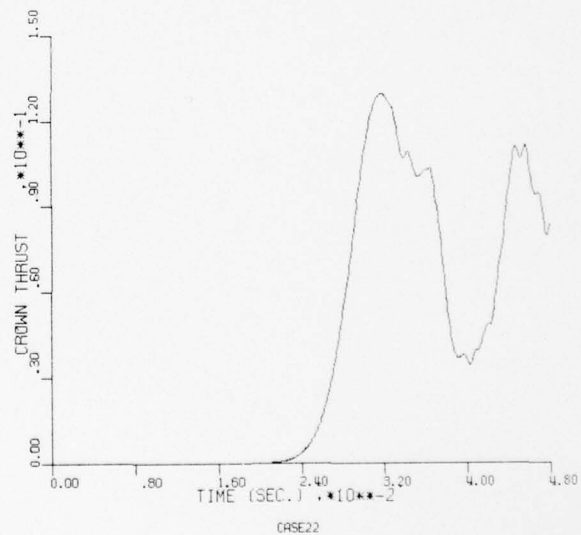
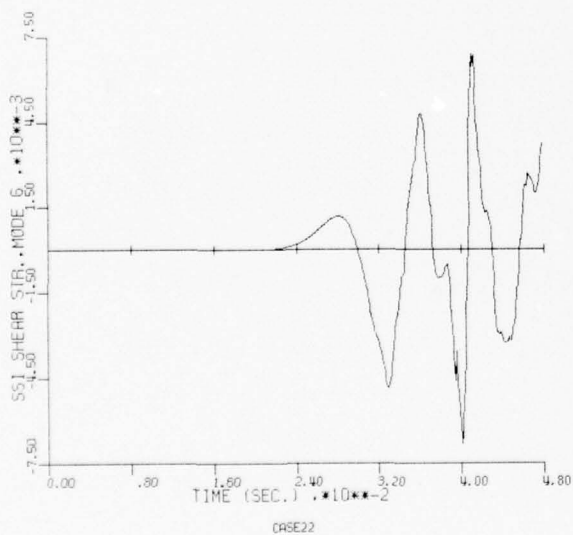
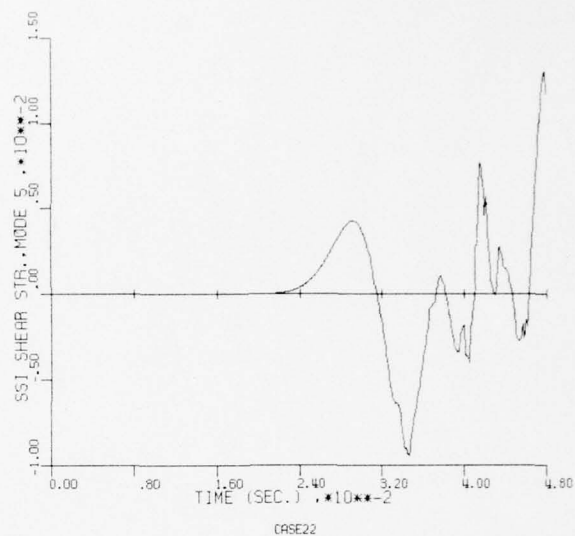
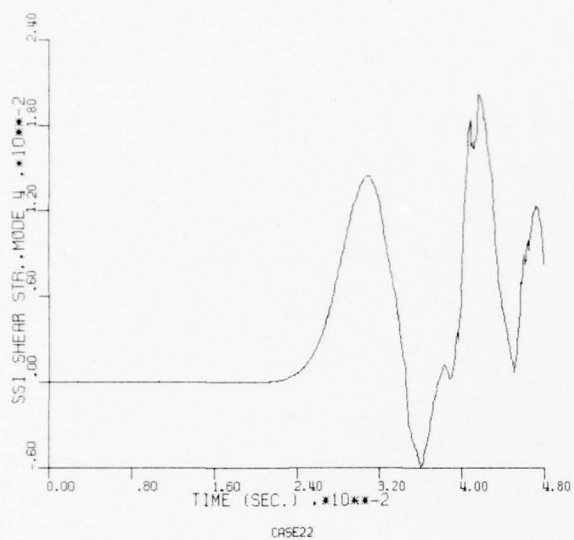


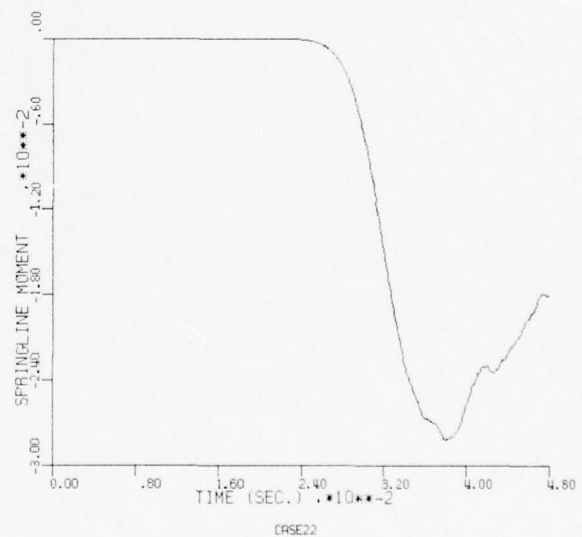
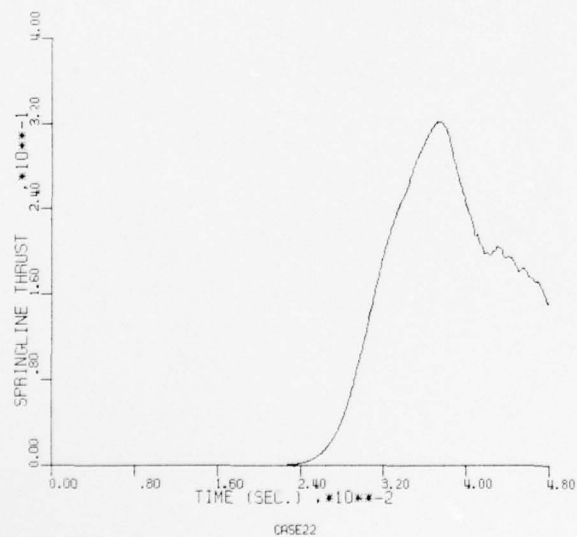
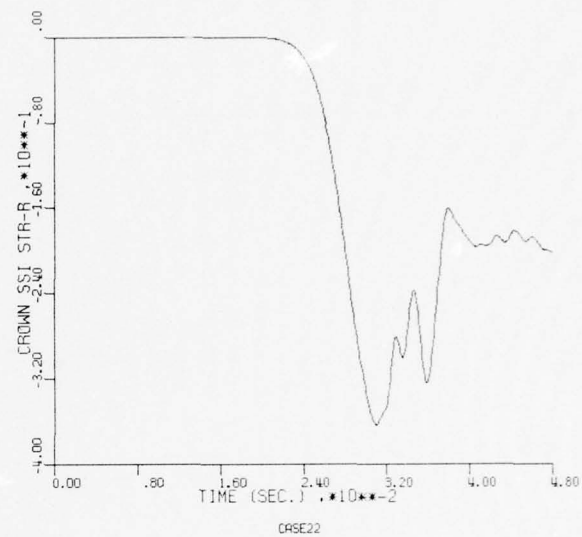
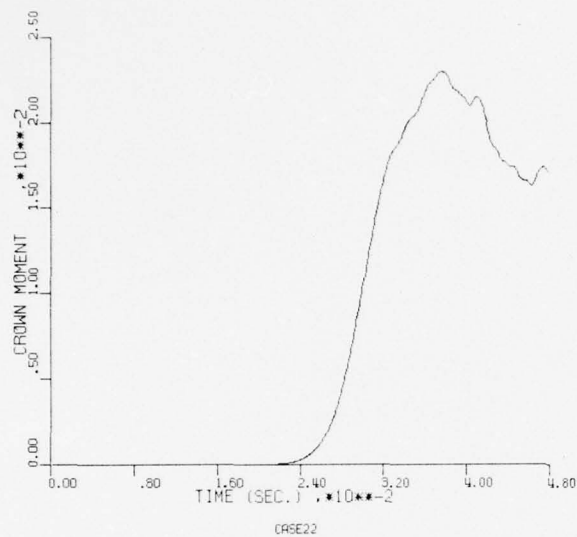




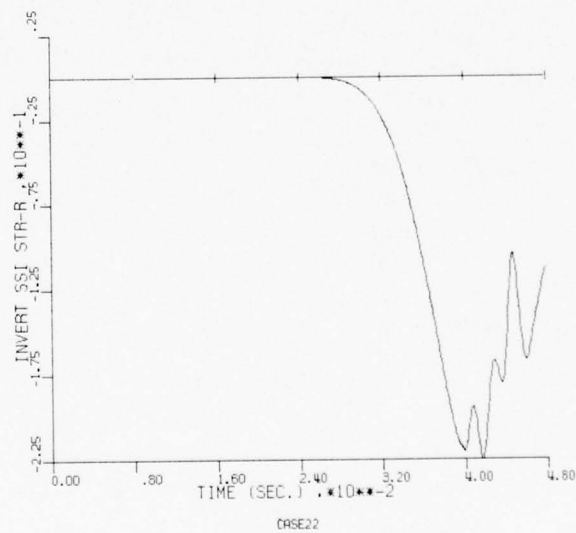
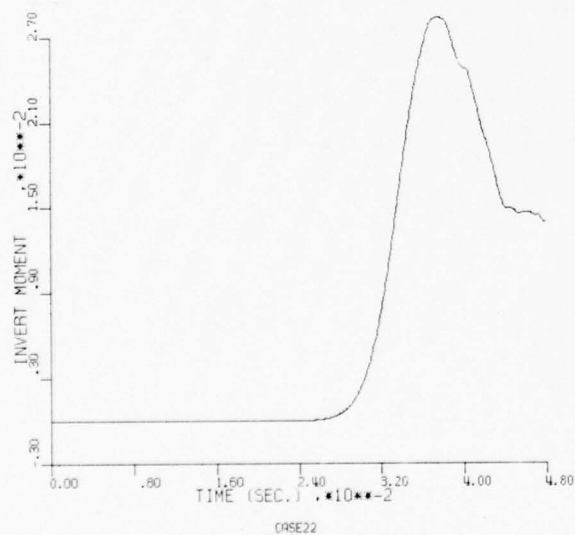
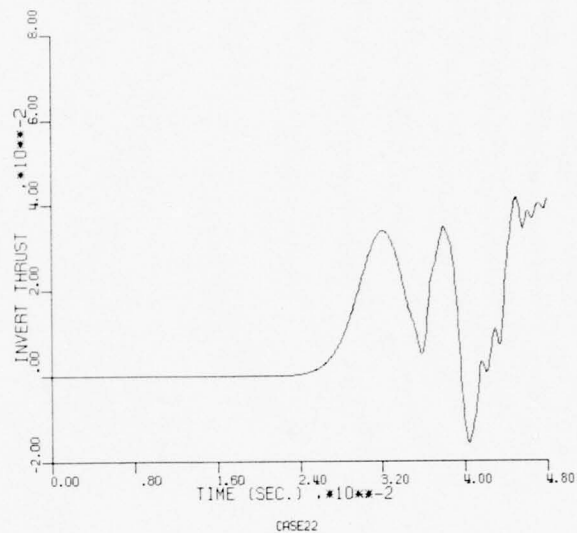
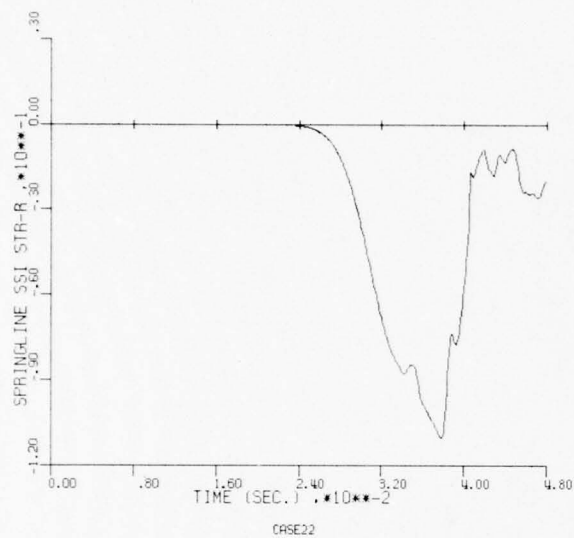












CASE23

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MIN. VALUJS

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.043088	-1.087437	-.402418	-.000000
	2	0.000000	0.000000	-.102491	-1.059121	-.391989	0.000000
	3	0.000000	0.000000	-.173965	-.962686	-.356396	0.000000
	4	0.000000	0.000000	-.250445	-.919869	-.347804	-.023771
	5	0.000000	-.0001172	-.298334	-.857431	-.345007	-.013604
	6	0.000000	-.0035993	-.329735	-.815504	-.340152	-.047833
	7	0.000000	-.0151677	-.327756	-.697362	-.328769	-.035825
	8	0.000000	-.0310638	-.321074	-.612301	-.314540	-.095981
	9	0.000000	-.0503125	-.267662	-.522011	-.289144	-.068642
	10	0.000000	-.0653527	-.221196	-.469968	-.261652	-.044397
	11	0.000000	-.0779584	-.133954	-.402630	-.239070	-.113915
SPR	12	0.000000	-.0844851	-.064339	-.327303	-.212126	-.213879
	13	0.000000	-.0859010	0.000000	-.327063	-.174297	-.209484
	14	0.000000	-.0819997	-.000000	-.311454	-.185482	-.333022
	15	0.000000	-.0731317	-.000000	-.439057	-.205386	-.377750
	16	0.000000	-.0583538	-.000000	-.396570	-.236426	-.376029
	17	0.000000	-.0390990	-.000000	-.533401	-.228152	-.401583
	18	0.000000	-.0169020	-.000000	-.544480	-.212460	-.404005
	19	0.000000	-.0000000	-.000000	-.602667	-.229682	-.407378
	20	0.000000	-.0000000	-.000000	-.633491	-.205163	-.380748
	21	0.000000	-.0000000	-.000011	-.703848	-.225391	-.330740
	22	0.000000	-.0000000	-.000038	-.705316	-.230559	-.242171
	23	0.000000	-.0000000	-.000042	-.733771	-.248328	-.178738
INV	24	0.000000	-.0000000	-.000021	-.742353	-.251562	-.039809

MAX. VALUJS

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.417914	.0706915	.000000	0.000000	0.000000	.068996
	2	.429191	.0668287	.000000	0.000000	0.000000	.255518
	3	.459949	.0604752	0.000000	0.000000	0.000000	.353842
	4	.516488	.0489417	0.000000	0.000000	.004072	.359763
	5	.577427	.0324328	0.000000	0.000000	0.000000	.414340
	6	.647248	.0128038	0.000000	0.000000	0.000000	.397875
	7	.752268	.0000000	.000000	0.000000	0.000000	.416565
	8	.848354	.0000000	.000010	0.000000	.064276	.323682
	9	.925575	.0000000	.001172	.006444	.006940	.326855
	10	.994687	.0000000	.007373	0.000000	.056568	.210968
	11	1.023895	.0000000	.027924	.005896	.047441	.112284
SPR	12	1.040314	.0000000	.055927	.005955	0.000000	.000807
	13	1.024846	.0000000	.104743	0.000000	.012868	.036352
	14	.971517	.0000000	.169046	.014819	.011550	.000000
	15	.889535	.0000011	.235260	0.000000	.002195	.000000
	16	.797710	.0000340	.275455	0.000000	0.000000	.000000
	17	.694741	.0003533	.324046	0.000000	0.000000	.000000
	18	.592324	.0020559	.344413	0.000000	0.000000	.000000
	19	.482906	.0111711	.340929	0.000000	0.000000	.000000
	20	.389138	.0285882	.315130	0.000000	0.000000	.000000
	21	.300047	.0481944	.266218	0.000000	0.000000	.000000
	22	.200091	.0647360	.205634	0.000000	.020302	.000000
	23	.226409	.0762719	.126550	0.000000	.038436	.000000
INV	24	.215007	.0623555	.046028	0.000000	.073394	.012028

MIN-MAX MODAL AMPLITUDES -- CASEL23

LINER THRUST PEAK MODAL AMPLITUDES							
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	
MIN	0.	0.	-.41960E+00	-.70303E-01	-.12951E-01	-.12279E-01	-.11468E-01
MAX	.60895E+00	.21610E+00	.26226E-04	.23481E-01	.12682E-01	.53148E-02	.27402E-02

LINER	MOMENT PLAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.29668E-02	0.	0.	-.54745E-02	-.53248E-02	-.29015E-02	-.17482E-02
MAX	.23352E-13	.48438E-03	.82055E-01	.98852E-02	.99949E-03	.89431E-04	.25824E-03

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
LINER SHEAR PEAK MODAL AMPLITUDES							
MIN U.	- .21010E-07	- .33378E+00	- .66991E-01	- .11714E-01	- .45067E-02	- .96880E-02	
MAX U.	.21499E-01	0.	.11608E-01	.35008E-01	.19282E-01	.15155E-01	

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.56786E+00	-.36629L+00	-.31959E+00	-.13105E+00	-.39057E-01	-.84687E-02	-.20975E-01
MAX	0.	0.	0.	.11670E-01	.95588E-01	.47408E-01	.65866E-01

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
SSI SHEAR STR.PEAK MODAL AMPLITUDES							
MIN	0.	-.14454E+00	0.	-.50973E-01	-.16065E-01	-.11122E-01	-.44041E-02
MAX	0.	.25455E-02	.39687E+00	.11666E+00	.41287E-01	.39474E-01	.36877E-01

CASL23

CROWN THRUST

```

*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE  MODES 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS    .011011    .020730    .003105    .002056    .001465    .000242    .000025    .74481E-02
MIN.    0.000000    0.000000    0.000000    0.000000    0.000000    0.000000    0.000000    0.
MAX.    1.457112    1.744802    1.087022    1.016650    1.020857    1.014259    1.008932    .41791E+00

```

CROWN MOMENT

```

*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE  MODES 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS    .042994    .042942    .000073    .003565    .002329    .001332    .000237    .13586E-02
MIN.    -.002967    -.002744    0.000000    0.000000    0.000000    0.000000    0.000000    0.
MAX.    .000000    .000000    1.113409    1.048485    1.026678    1.018056    1.005718    .70691E-01

```

CROWN SSI STR-R

```

*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE  MODES 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS    .012524    .011617    .002508    .005385    .004277    .002568    .000216    .18178E-01
MIN.    .522198    .713164    .884922    .995284    1.007436    .997516    .993829    -.10874E+01
MAX.    0.000000    0.000000    0.000000    0.000000    0.000000    0.000000    0.000000    0.

```

SPRINGLINE THRUST

```

*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE  MODES 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS    .007845    .007562    .000258    .000351    .000089    .000095    .000023    .16786E-01
MIN.    0.000000    0.000000    -.000000    -.000000    -.000000    -.000000    0.000000    0.
MAX.    .585349    .590264    .989730    .945514    .997775    .996622    1.000423    .10403E+01

```



# SPRINGLINE MOMENT

```

*****
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE ***** MODES 0-6
SRSS .038002 .038005 .001298 .000679 .000380 .000669 .000269
MIN. .035116 .034933 .997326 .985046 1.001855 1.003902 .994759
MAX. .000000 .000000 0.000000 0.000000 .000000 .000000 .000000
INPUT VARIABLE
.15867E-02
-.84485E-01
.41365E-41

```

# SPRINGLINE SSI STR-R

```

*****
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE ***** MODES 0-6
SRSS .063173 .063701 .002131 .000351 .005157 .007673 .004404
MIN. 1.731963 1.754947 1.116033 1.114208 1.004258 .998346 1.031978
MAX. 0.000000 0.000000 .128600 1.582471 4.652292 6.903760 1.717099
INPUT VARIABLE
.41909E-02
-.32750E+00
.59555E-02

```

# INVERT THRUST

```

*****
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE ***** MODES 0-6
SRSS .058947 .036035 .005335 .002874 .004260 .001388 .002014
MIN. 0.000000 -.000008 0.000000 -.000000 -.000000 -.000000 -.000000
MAX. 2.832215 2.491846 .944651 .975169 .975417 .999944 .997051
INPUT VARIABLE
.31732E-02
0.
.21501E+00

```

# INVERT MOMENT

```

*****
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE ***** MODES 0-6
SRSS .038855 .038908 .004964 .001242 .000024 .000996 .000125
MIN. -.002967 -.003205 0.000000 -.000034 0.000000 -.000000 0.000000
MAX. .000000 0.000000 .949361 1.014311 .996825 1.005285 .996454
INPUT VARIABLE
.13276E-02
-.18144E-21
.82355E-01

```

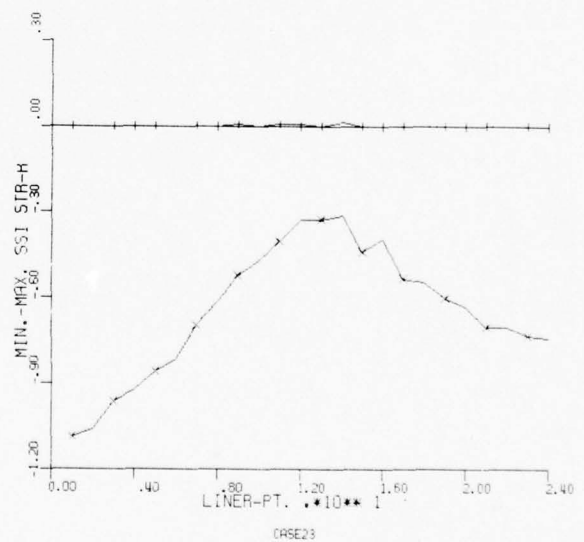
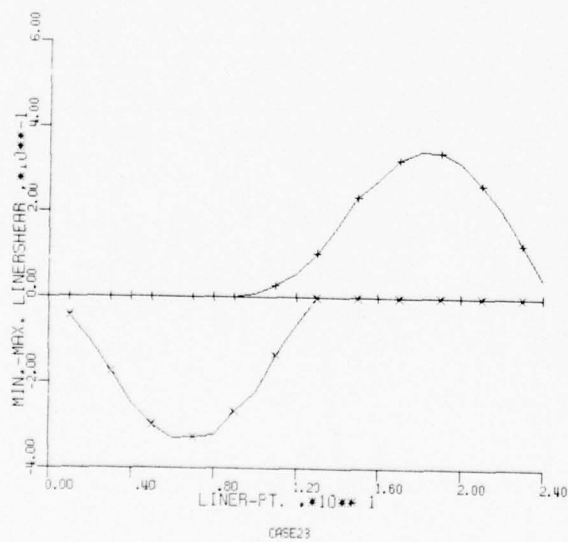
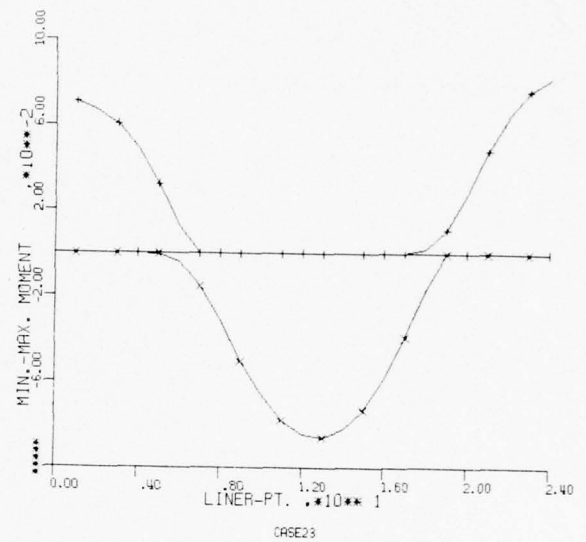
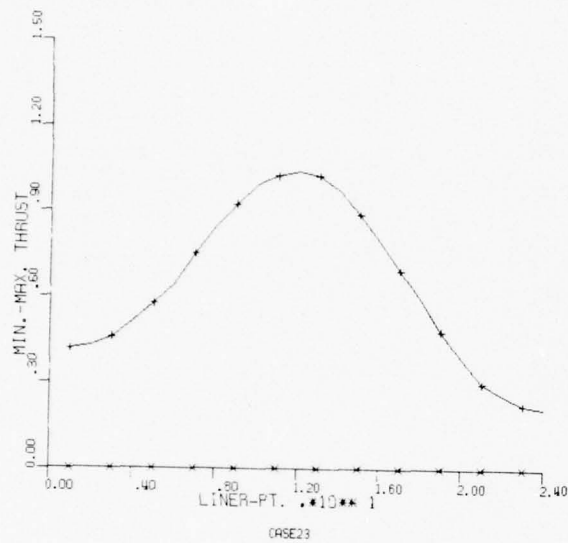
# INVERT SSI STR-R

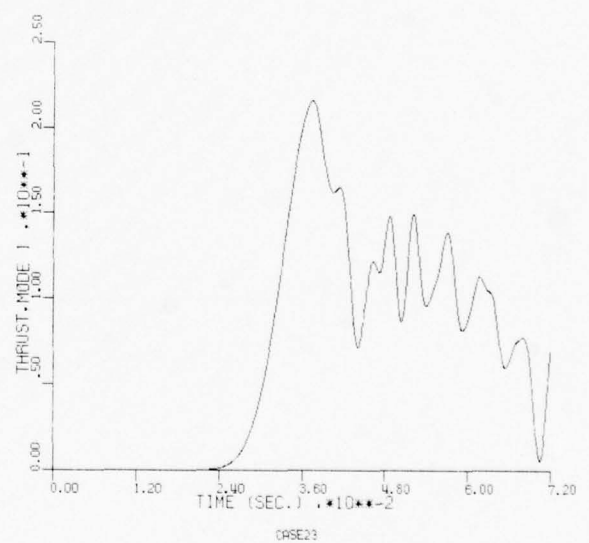
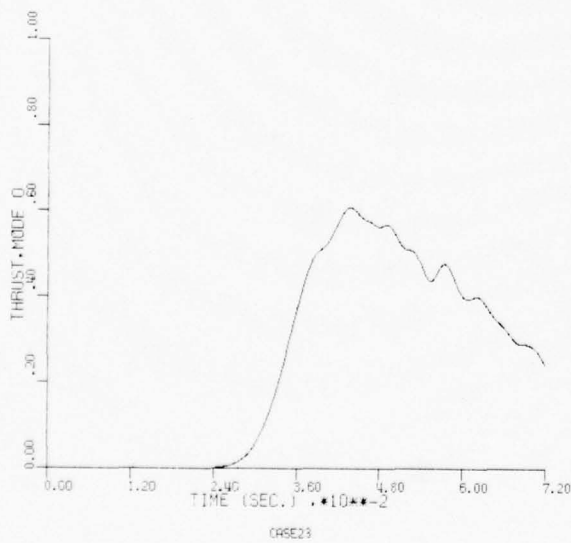
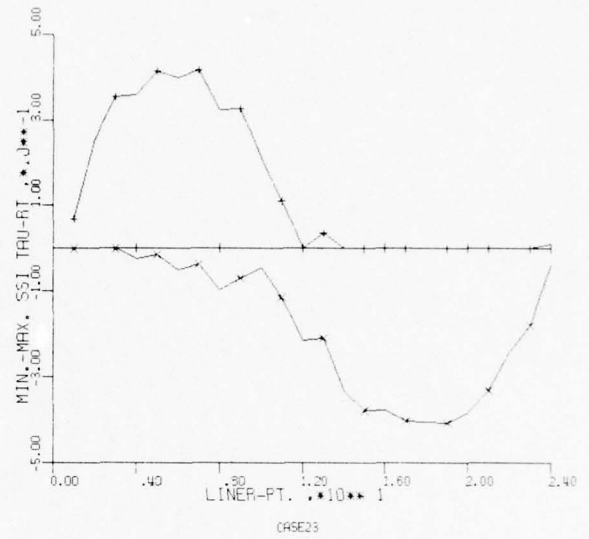
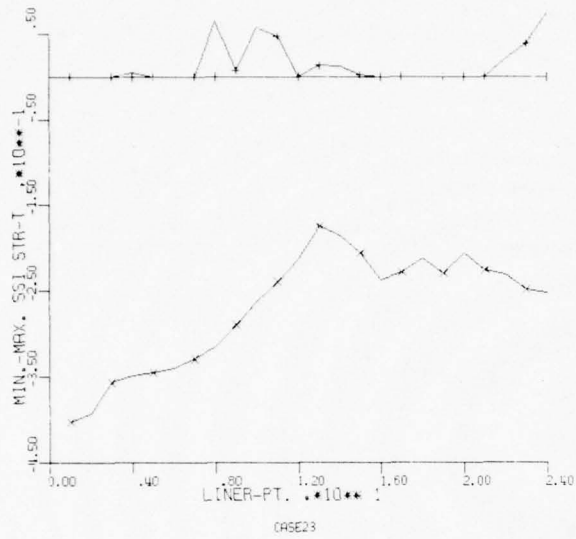
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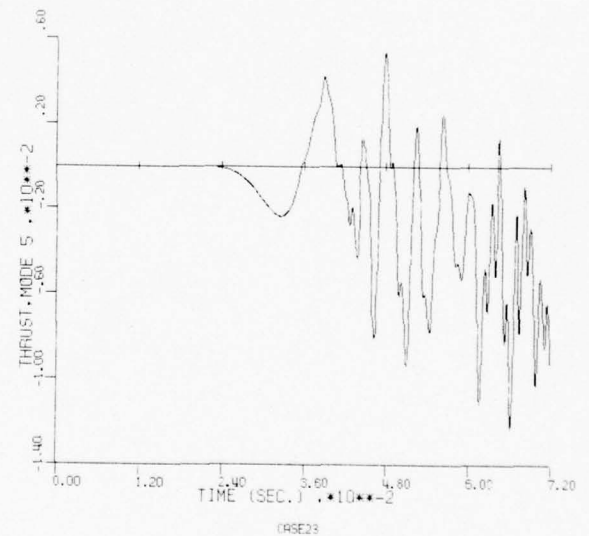
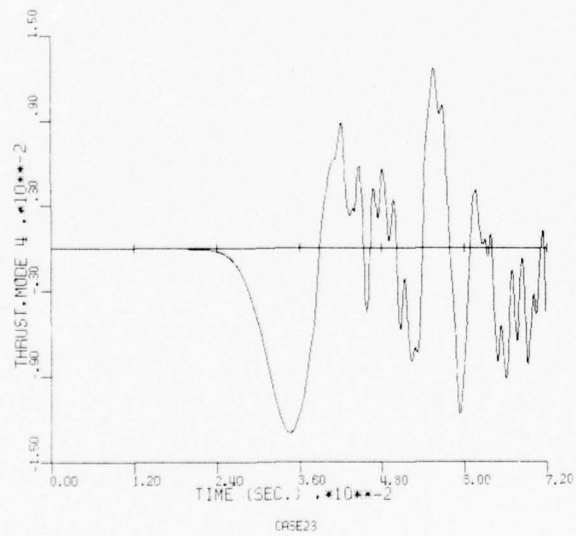
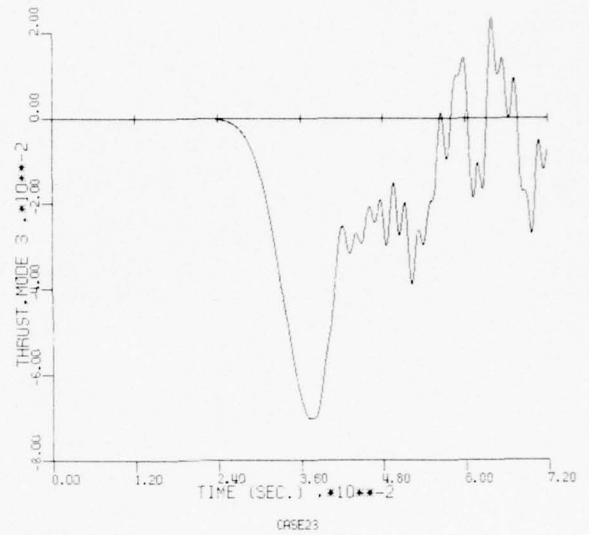
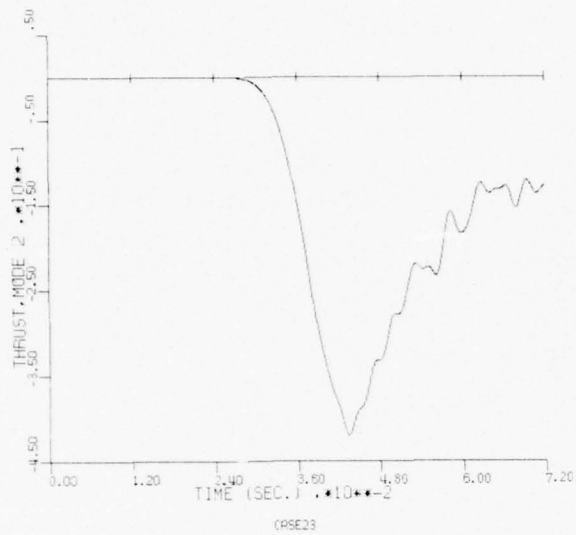
*****
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE ***** MODES 0-6
SRSS .008052 .009458 .012441 .007981 .006263 .008912 .004595
MIN. .761943 .683024 1.062866 1.074644 .974897 .998087 1.002277
MAX. 0.000000 .049942 0.000000 .012846 0.000000 .000226 0.000000
INPUT VARIABLE
.11726E-01
-.74235E+00
0.

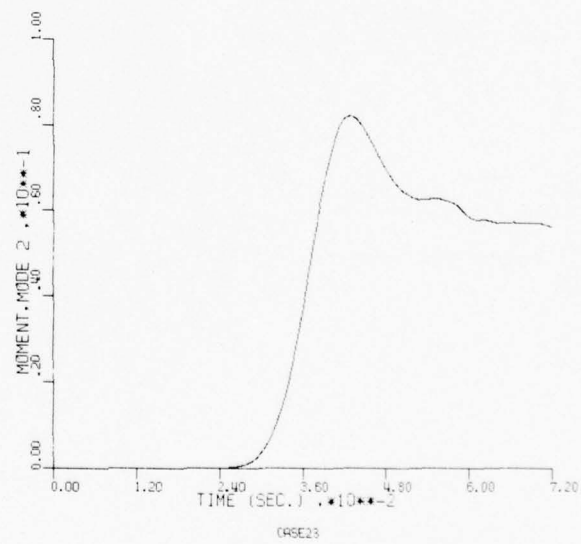
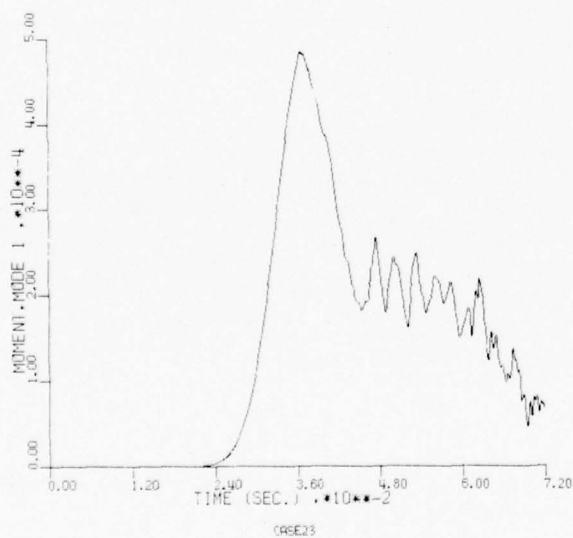
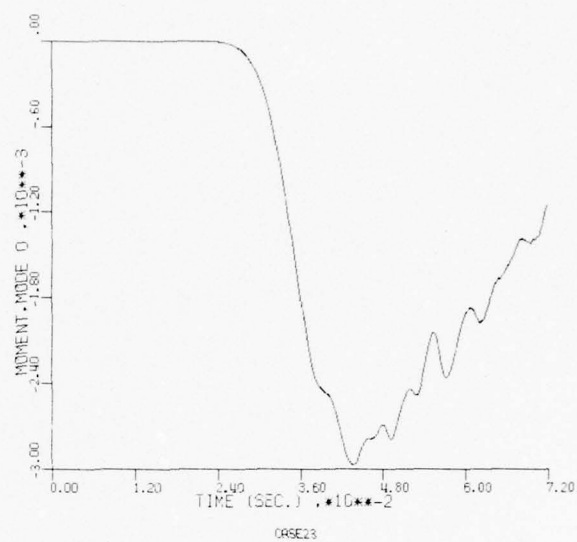
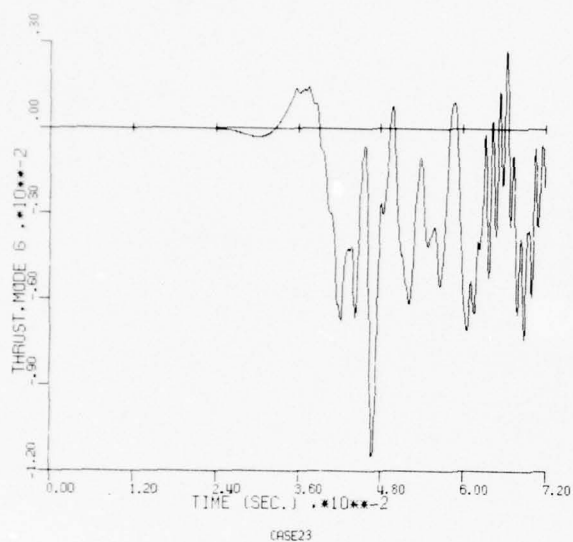
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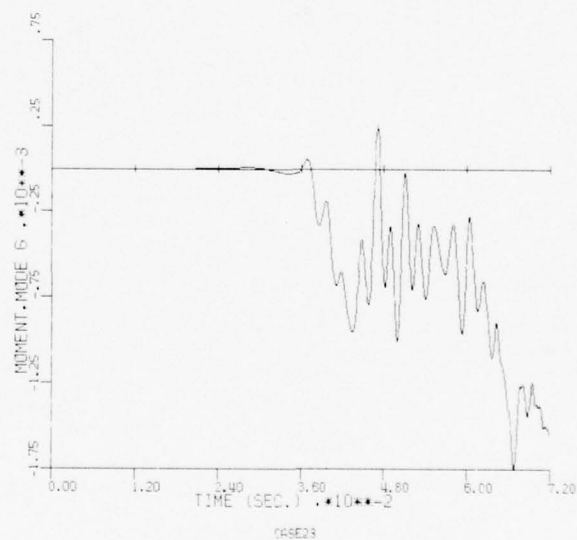
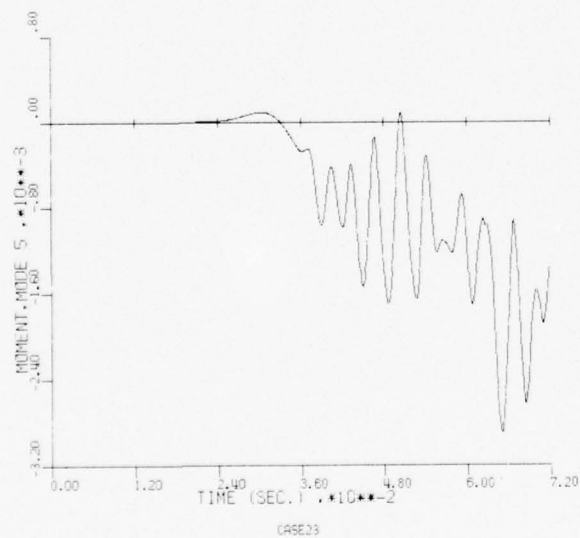
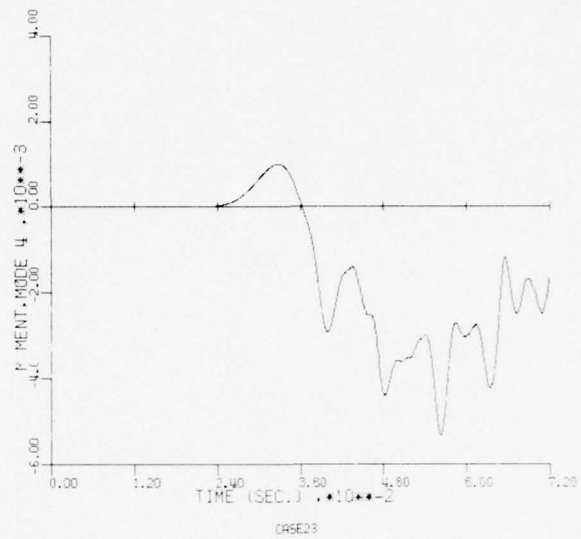
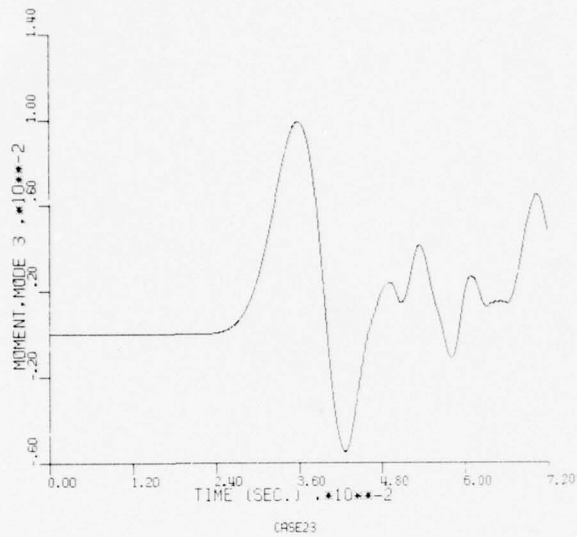




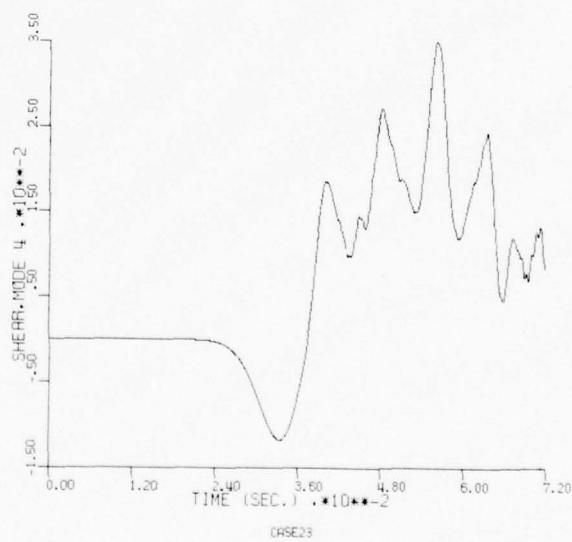
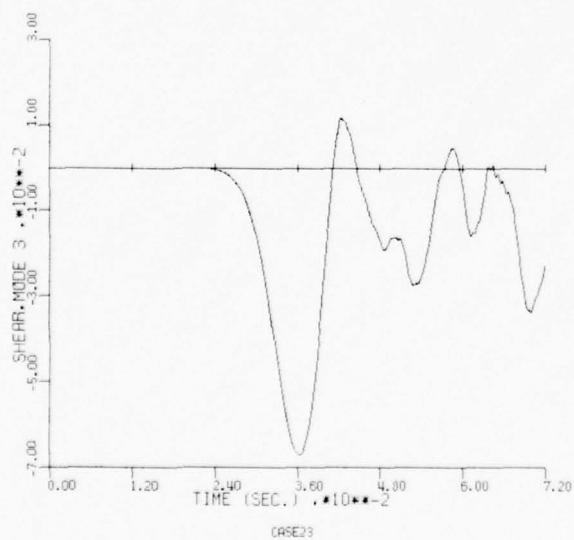
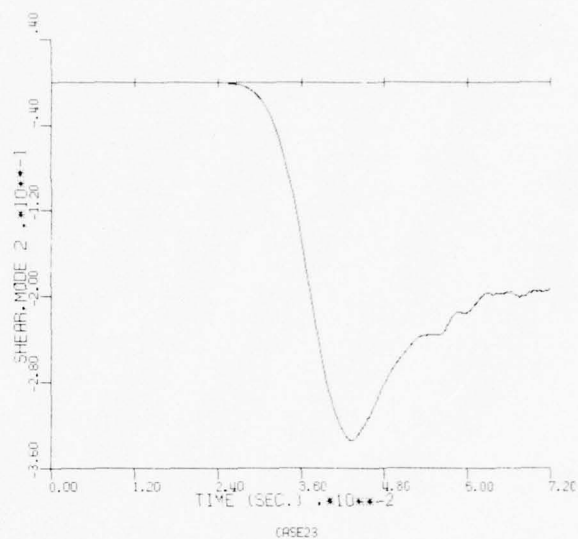
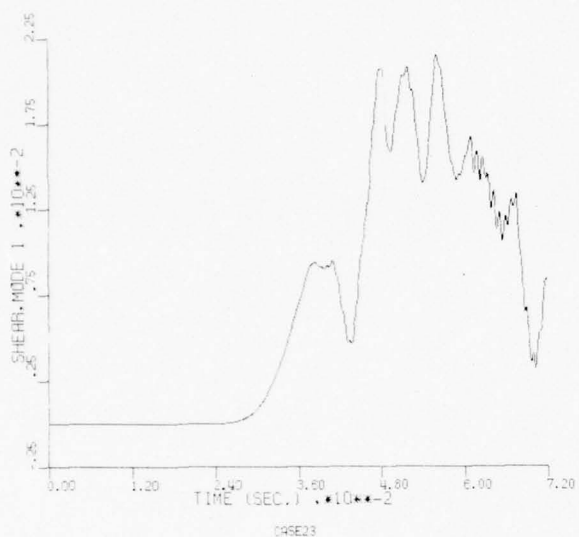


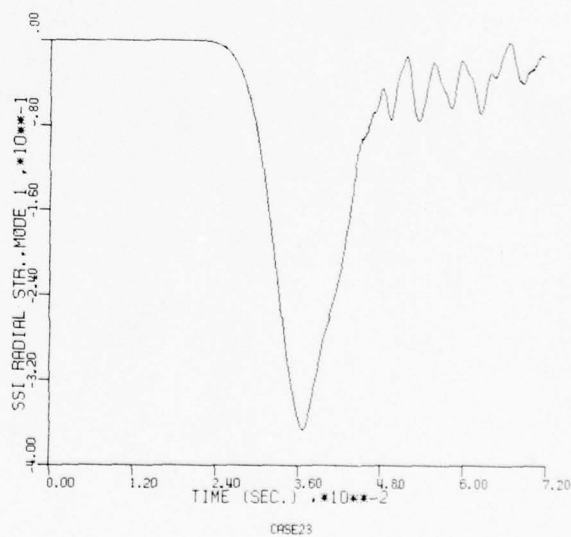
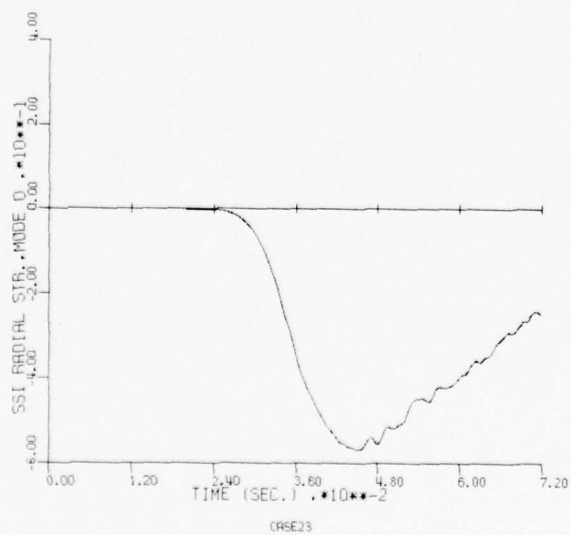
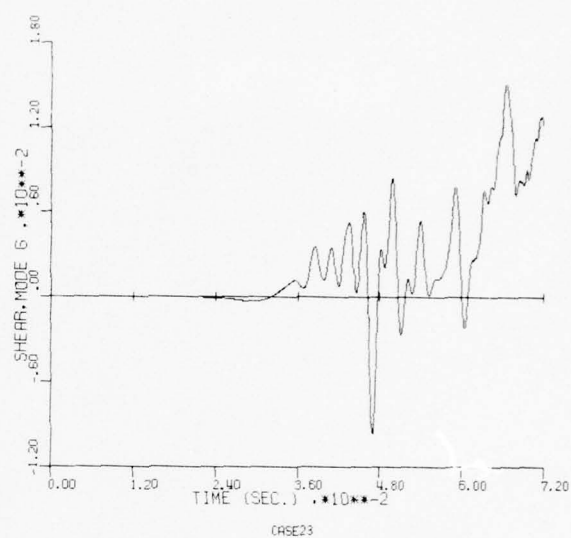
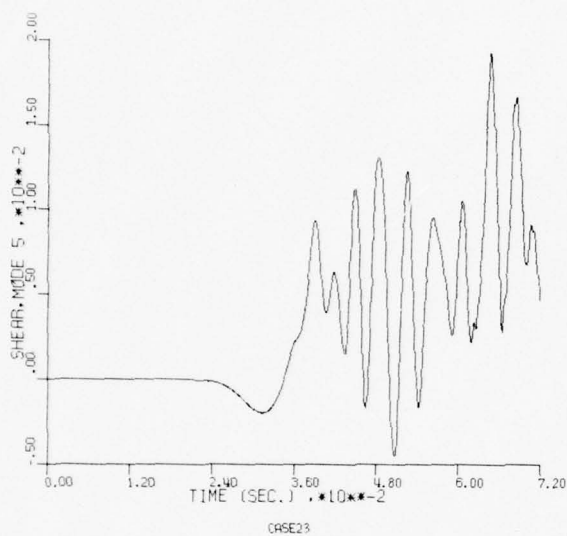


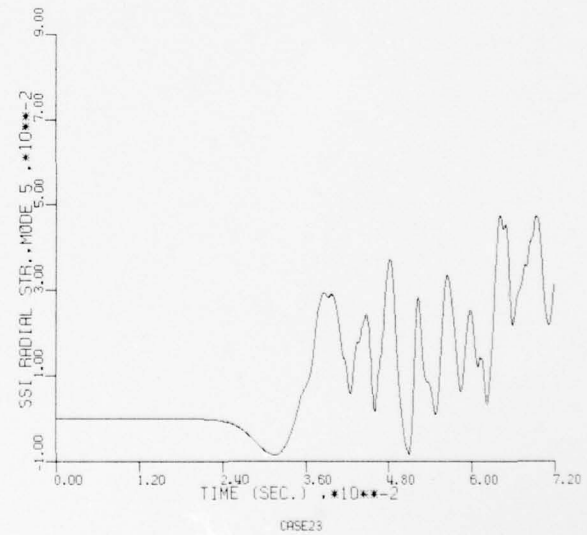
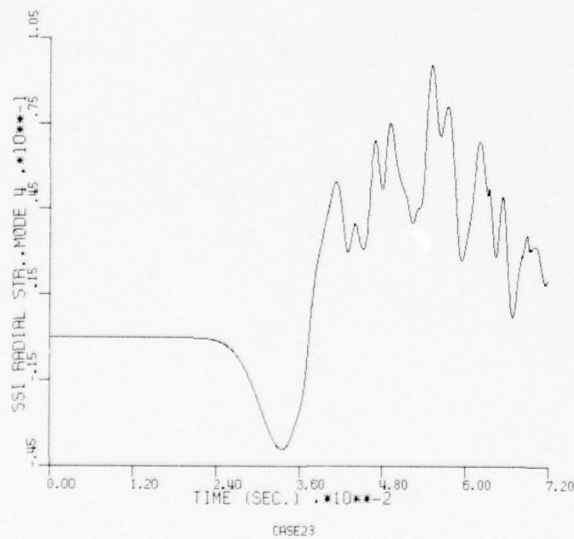
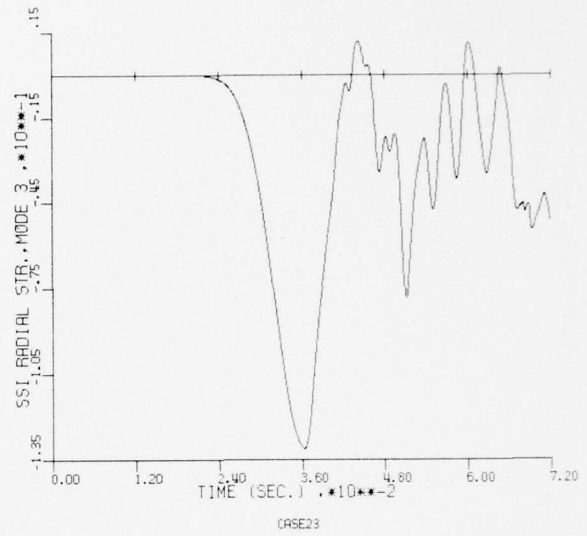
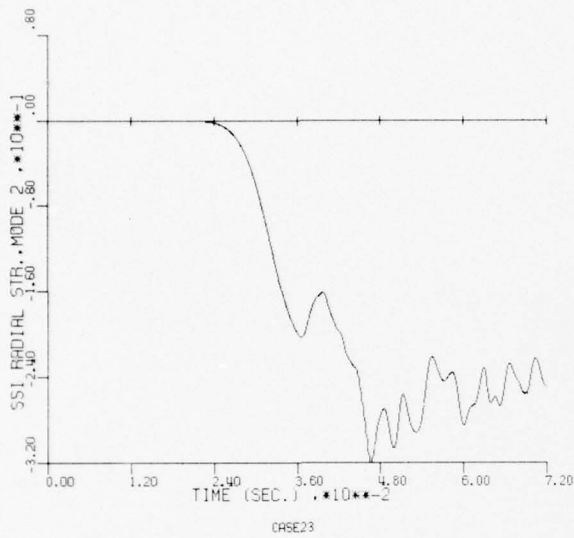


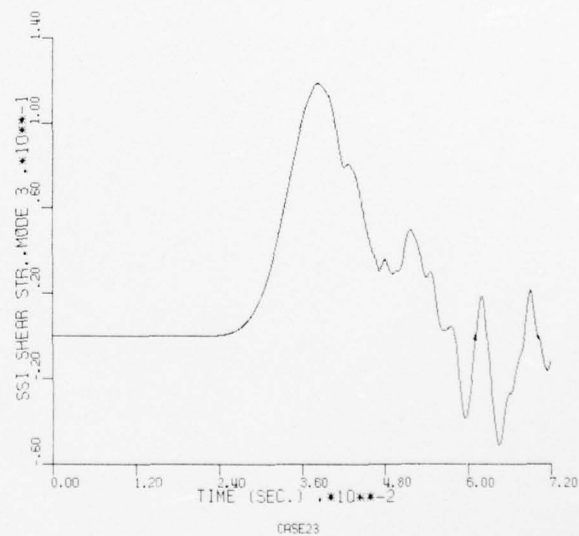
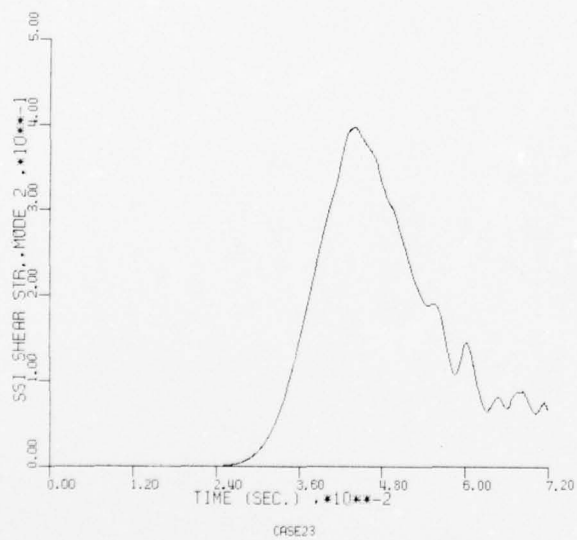
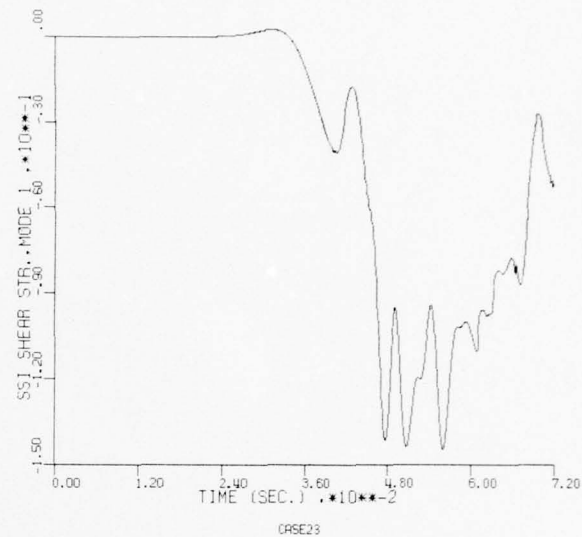
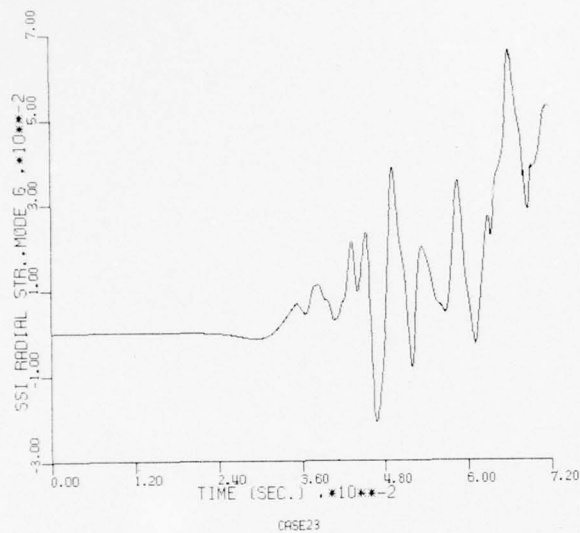


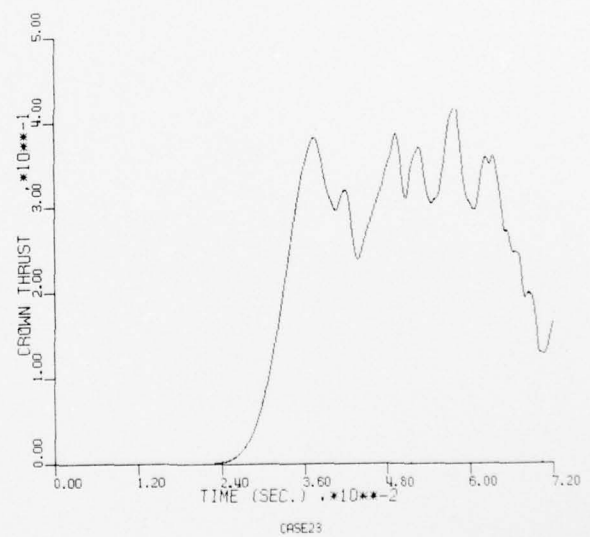
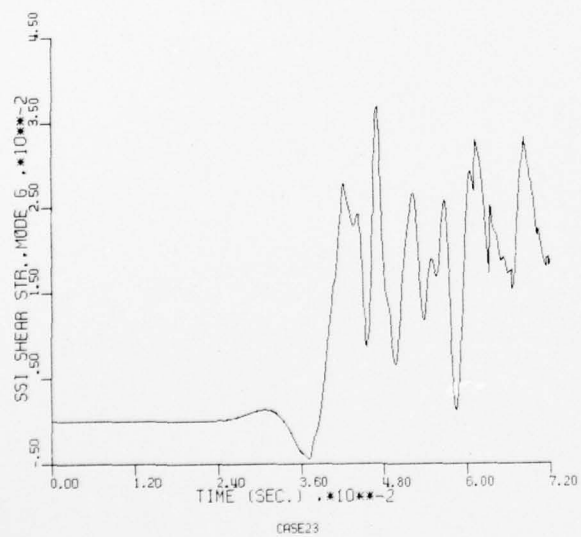
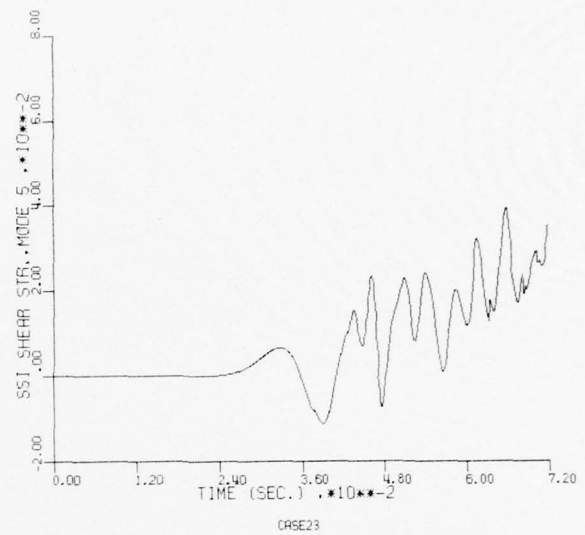
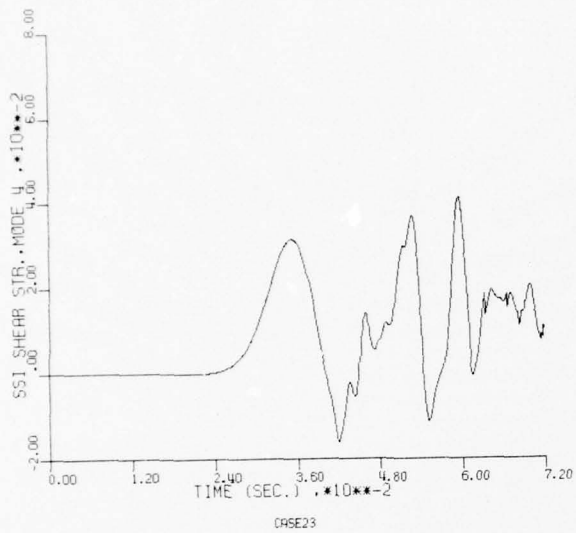




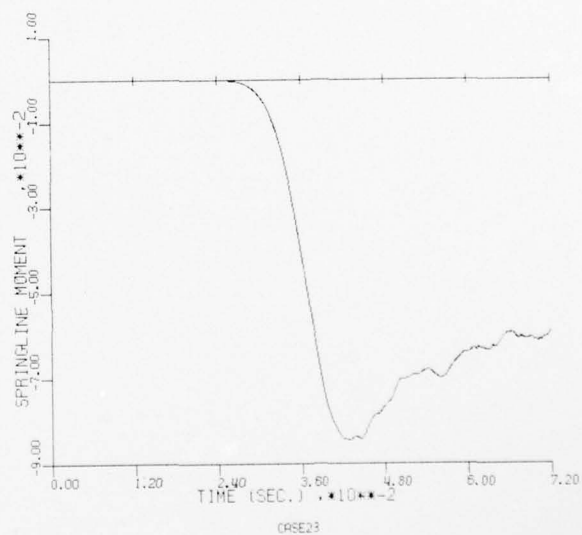
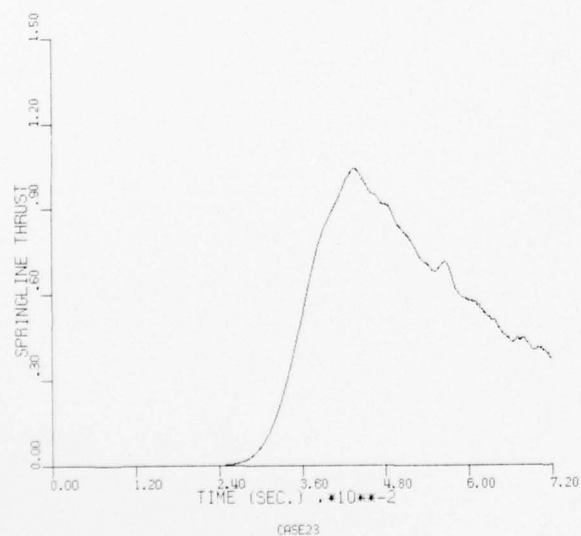
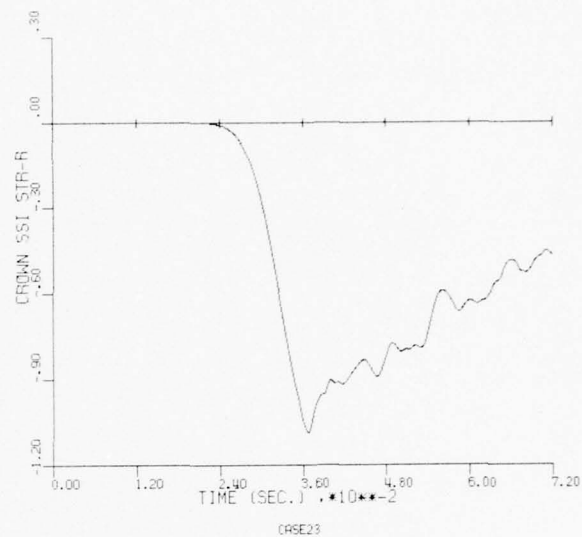
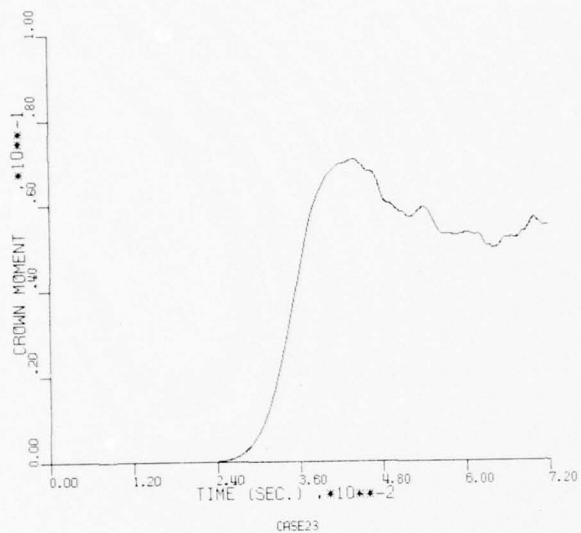


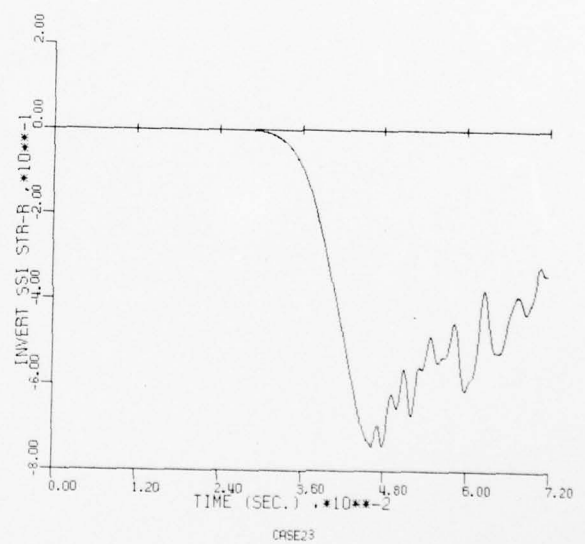
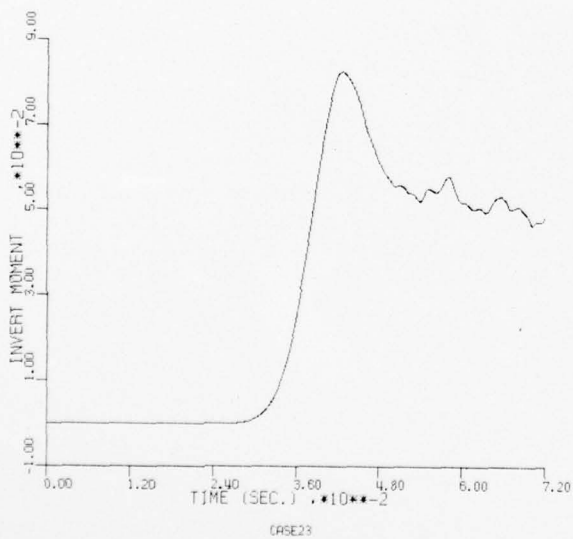
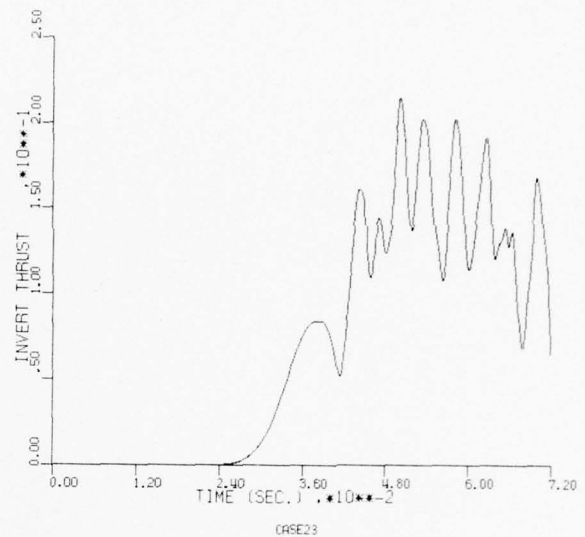
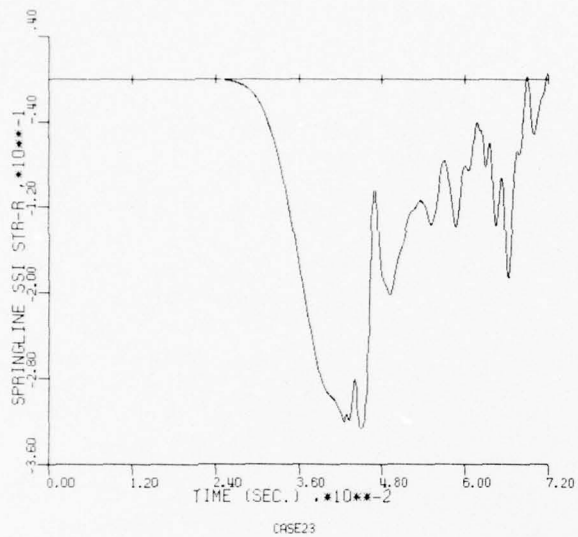












CASE 24

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MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.070020	0.0000000	-.080884	-1.925232	-.753309	-.0000000
	2	-.052084	0.0000000	-.139991	-1.786044	-.740935	0.0000000
	3	0.0000000	0.0000000	-.224179	-1.514302	-.561865	-.010491
	4	0.0000000	0.0000000	-.285177	-1.308049	-.539923	-.092555
	5	0.0000000	-.0115823	-.328390	-1.040360	-.404554	-.111730
	6	0.0000000	-.0230548	-.354337	-.951095	-.387915	-.119899
	7	0.0000000	-.0361168	-.339105	-.711865	-.377443	-.118207
	8	0.0000000	-.0468660	-.330919	-.864389	-.392405	-.150662
	9	0.0000000	-.0575040	-.283773	-.602789	-.347382	-.118317
	10	0.0000000	-.0664286	-.290071	-.673000	-.401193	-.119762
SPR	11	0.0000000	-.0845925	-.206919	-.587273	-.319669	-.155718
	12	0.0000000	-.0948536	-.141962	-.574346	-.438969	-.240762
	13	0.0000000	-.1031196	-.092079	-.419060	-.459124	-.314671
	14	0.0000000	-.1040901	-.001147	-.456274	-.400551	-.253896
	15	0.0000000	-.0971177	-.0000000	-.561026	-.289088	-.258951
	16	0.0000000	-.0826279	-.0000000	-.541543	-.287177	-.259429
	17	0.0000000	-.0599633	-.0000000	-.623955	-.415136	-.288387
	18	0.0000000	-.0308000	-.000472	-.553538	-.358521	-.338798
	19	-.008772	-.0037726	-.023053	-.850726	-.465693	-.463467
	20	0.0000000	-.0000000	-.047589	-.667997	-.293454	-.372614
INV	21	-.019218	-.0000000	-.064457	-.852087	-.302097	-.362466
	22	-.079699	-.0000000	-.080199	-.816403	-.285035	-.240676
	23	-.135020	-.0000000	-.075073	-.977330	-.338860	-.193512
INV	24	-.172327	-.0000000	-.026355	-.871191	-.433616	-.102828

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.617499	.0765410	.0000000	0.0000000	0.0000000	.162695
	2	.619968	.0715076	0.0000000	0.0000000	0.0000000	.352357
	3	.696720	.0668776	0.0000000	0.0000000	0.0000000	.448521
	4	.719142	.0543170	0.0000000	0.0000000	0.0000000	.497955
	5	.816221	.0427474	0.0000000	.011775	.019728	.371644
	6	.896404	.0235086	0.0000000	.002311	.034479	.353308
	7	.927069	.0051133	.007655	.035160	.035383	.337890
	8	.949592	.0000000	.055313	.020626	.008750	.255701
	9	.932735	.0000000	.111929	.019404	0.0000000	.267207
	10	.953733	.0000000	.157882	.028734	0.0000000	.116182
SPR	11	.978520	.0000000	.207591	.021832	.001797	.125836
	12	.974755	.0000000	.239979	.020796	0.0000000	.050873
	13	.941119	.0000000	.266510	.019455	0.0000000	.028180
	14	.896397	.0003375	.270344	.032227	.031518	.022969
	15	.855533	.0059069	.277413	.040822	0.0000000	.026974
	16	.789634	.0117510	.321419	.008966	.000984	.0000000
	17	.693276	.0184296	.393407	.035642	.021254	.082719
	18	.619578	.0257910	.443376	.025346	0.0000000	.041751
	19	.481220	.0323155	.434994	0.0000000	0.0000000	.044043
	20	.414365	.0383406	.437783	0.0000000	.018734	.092767
INV	21	.337527	.0597894	.398906	0.0000000	.022156	.008507
	22	.347591	.0633479	.311923	0.0000000	.050792	.070691
	23	.365071	.0994035	.207625	0.0000000	.018127	.078097
INV	24	.378951	.1076158	.081812	.016359	.029936	.021367

## MIN-MAX MODAL AMPLITUDES -- CASE 2/4

LINER THRUST PEAK MODAL AMPLITUDES

	MIN	0.	- .77932E-01	- .42097E+00	- .15117E+00	- .67540E-01	- .33603E-01	- .19252E-01
	MAX	.58008E+00	.39028E+00	.27976E-01	.19920E-01	.10998E-01	.95282E-02	.11874E-01

LINEAR MOMENT PEAK MODAL AMPLITUDES

```

--28930E-02      --.10477E-03      0.      --.21432E-01      --.87590E-02      --.45478E-02
--33443E-13      --.71334E-03      .93286E-01      .29005E-01      .45334E-02      .43022E-02
MIN
MAX

```

LINER SHEAR PEAK MODAL AMPLITUDES

MIN	0.	-.29757E+02	-.36237E+00	-.16734E+00	-.83054E-01	-.45792E-01	-.38395E-01
MAX	0.	.13839E-01	0.	.90281E-01	.79164E-01	.62028E-01	.42590E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES

MIN	-.58431E+00	-.54387E+00	-.44246E+00	-.32722E+00	-.23088E+00	-.15471E+00	-.10182E+00
MAX	0.	.85048E-01	0.	.14051E+00	.15517E+00	.99647E-01	.83889E-01

SSCI SHEAR STR. PEAK MODAL AMPLITUDES

MIN	0.	- .90826E-01	- .18855E-01	- .40181E-01	- .14135E-01	- .37096E-01	- .43602E-02
MAX	0.	.33927E-01	.35339E+00	.16847E+00	.11776E+00	.64667E-01	.47715E-01

CASE 21

CROWN THRUST

MODE	0	MODES 0-1	MODES 0-2	MODAL HISTORY/INPUT	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
SRSS	.021141	.012276	.002774	.001846	.001100	.000709	.000051	.000051	.59361E-02	
MIN.	0.000000	0.000000	.170339	.502779	.613446	.904110	1.001629	1.001629	-.70026E-01	
MAX.	.939409	1.420061	1.234951	1.039382	.963397	.953657	.967928	.967928	.61750E+00	

CROWN MOMENT

MODE	0	MODES 0-1	MODES 0-2	MODAL HISTORY/INPUT	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
SRSS	.032611	.032676	.002004	.002305	.001180	.000774	.000758	.000758	.14462E-02	
MIN.	-.002893	-.002836	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.	
MAX.	.000000	.003091	1.173843	1.036542	.991855	1.003987	1.013814	1.013814	.76541E-01	

CROWN SST STR-R

MODE	0	MODES 0-1	MODES 0-2	MODAL HISTORY/INPUT	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
SRSS	.013488	.016794	.004336	.004291	.000872	.002568	.002971	.002971	.19243E-01	
MIN.	.303503	.487287	.655343	.817094	.923108	.980960	1.006407	1.006407	-.19252E+01	
MAX.	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.	

SPRINGLINE THRUST

MODE	0	MODES 0-1	MODES 0-2	MODAL HISTORY/INPUT	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT VARIABLE
SRSS	.003492	.003722	.000042	.000115	.000181	.000233	.000068	.000068	.14984E-01	
MIN.	0.000000	0.000000	-.000000	-.000000	-.000000	-.000000	0.000000	0.000000	0.	
MAX.	.595107	.600312	1.006601	1.012530	.988208	.989650	.993526	.993526	.97476E+00	



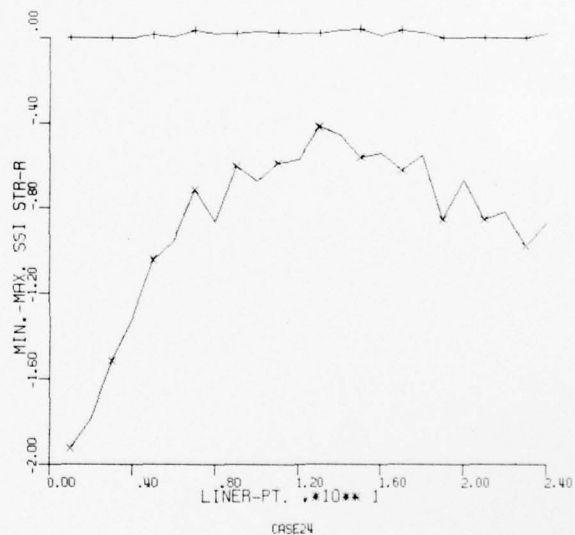
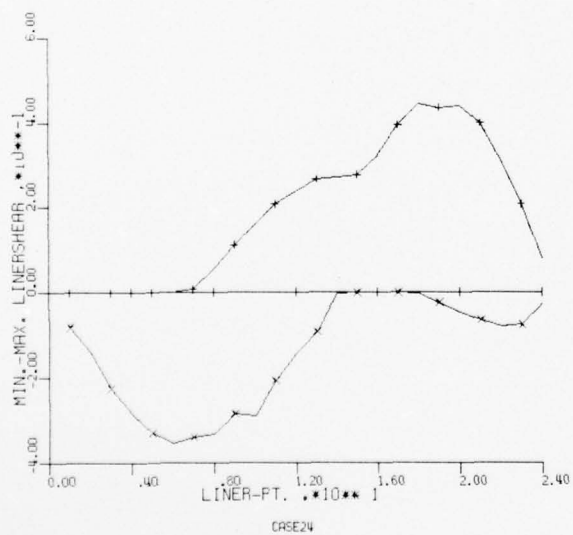
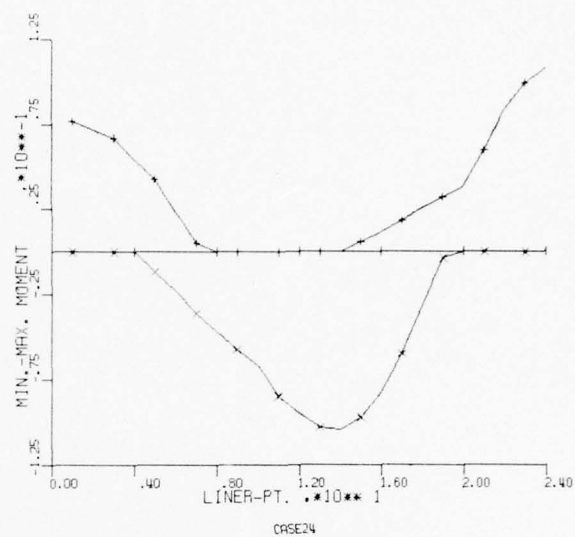
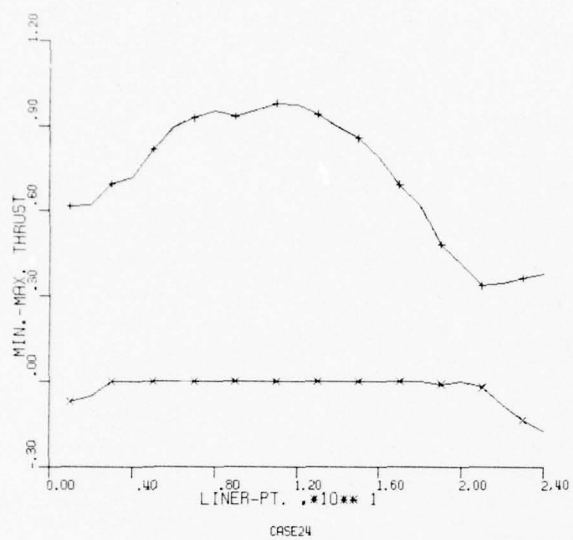
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .022943 .002392 .002343 .00535 .00422 .00435  
MIN. .030500 .030296 1.004038 .970678 1.004960 .997963 .994448  
MAX. .000000 .000000 0.000000 0.000000 .000000 .000000 .000000  
INPUT  
VARIABLE  
.17534E-02  
-.94854E-01  
.41730E-41

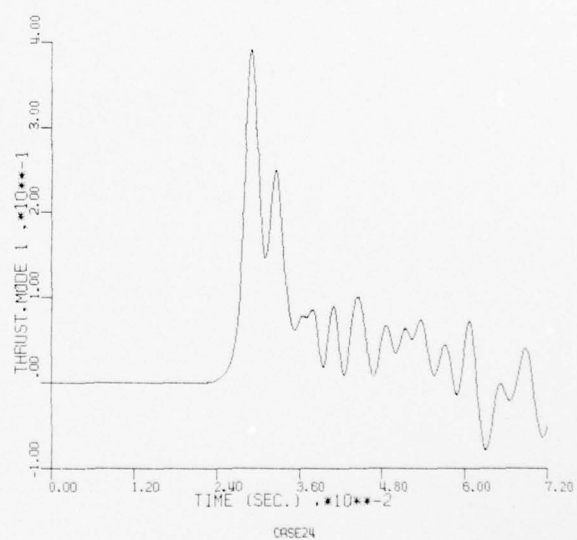
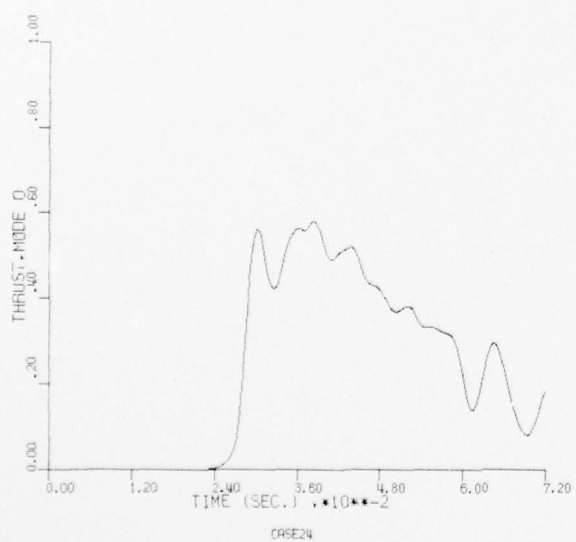
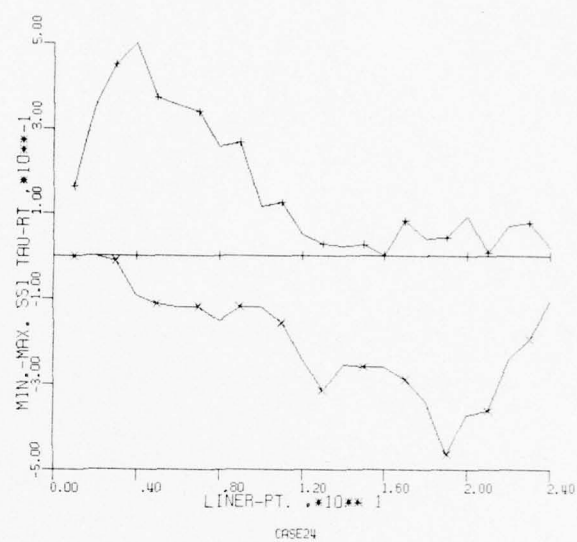
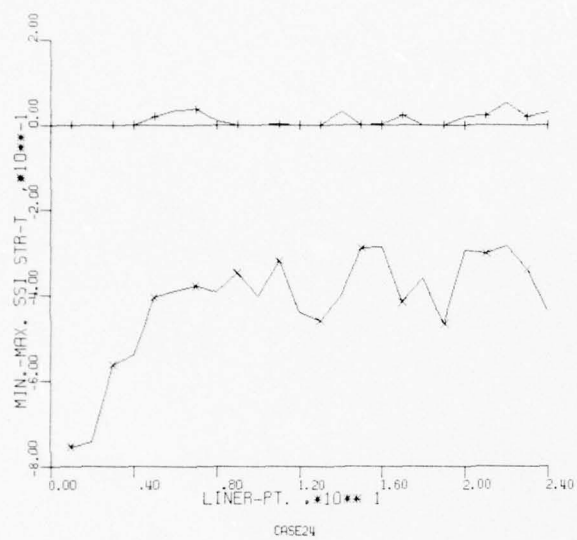
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .038202 .037198 .020520 .003360 .006028 .004165  
MIN. 1.017356 1.025424 .725876 .736399 .812348 .838348  
MAX. 0.000000 0.000000 4.967621 7.991752 1.729468 1.359175 0.000000  
INPUT  
VARIABLE  
.41536E-02  
-.57435E+00  
.20796E-01

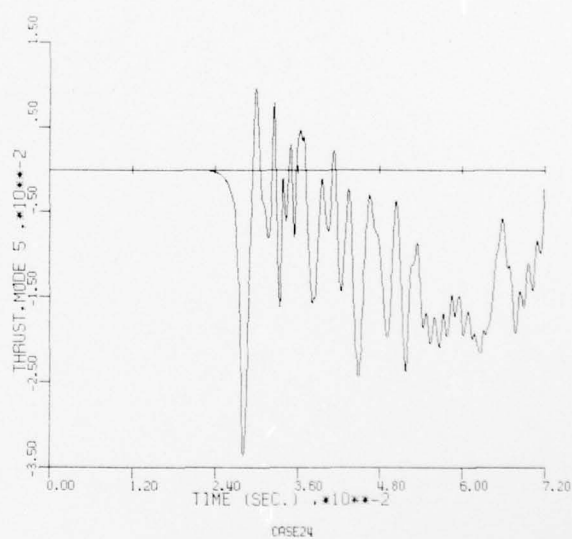
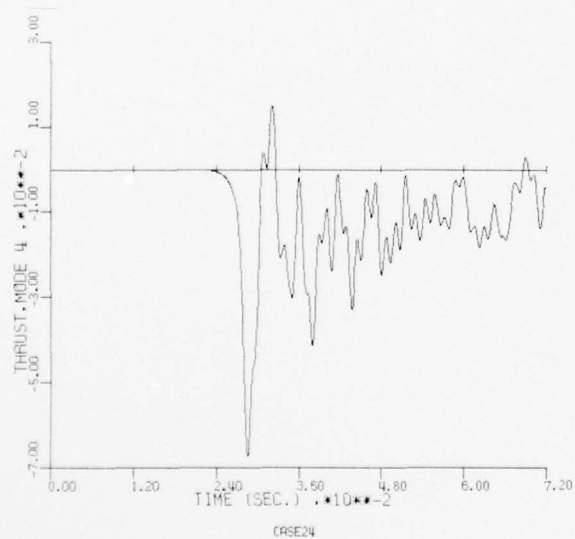
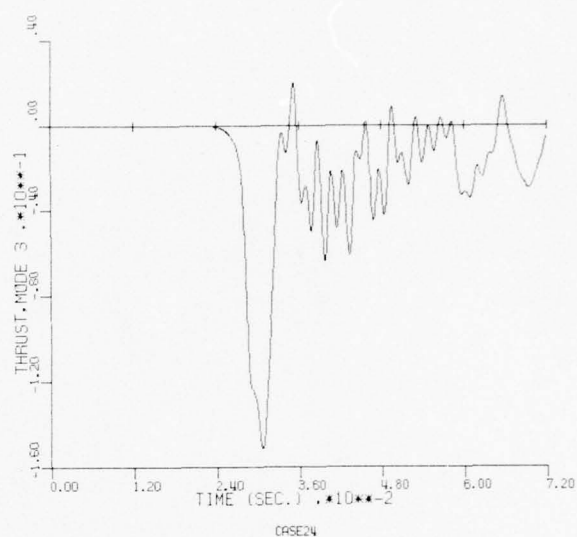
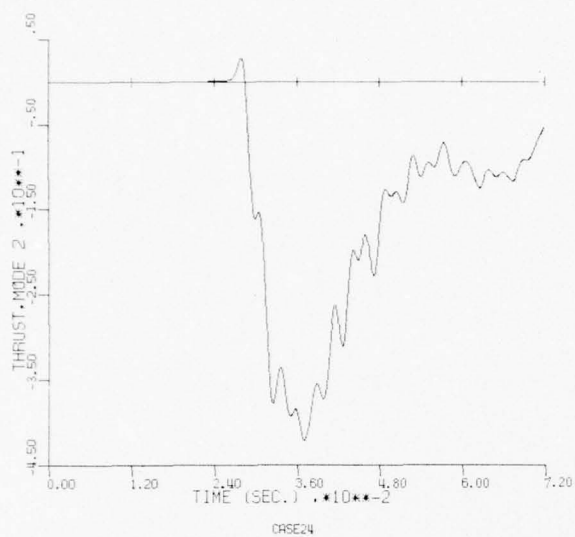
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .000854 .013083 .000029 .000224 .000763 .000286  
MIN. 0.000000 .149212 1.150832 .915052 .943181 .974824  
MAX. 1.530761 1.409342 .615481 .974975 .983906 .988706 .994506  
INPUT  
VARIABLE  
.45028E-02  
-.17233E+00  
.37895E+00

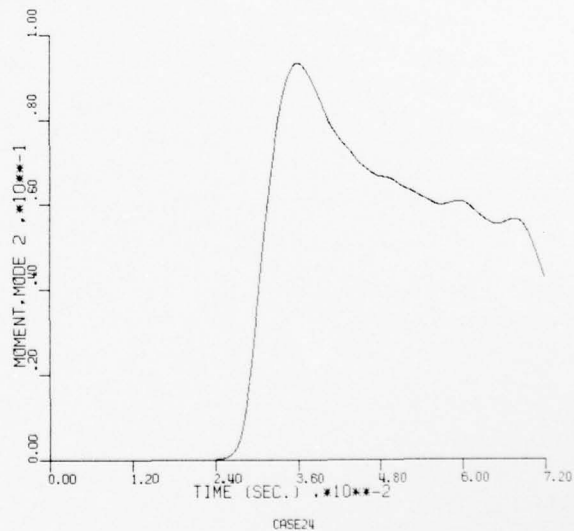
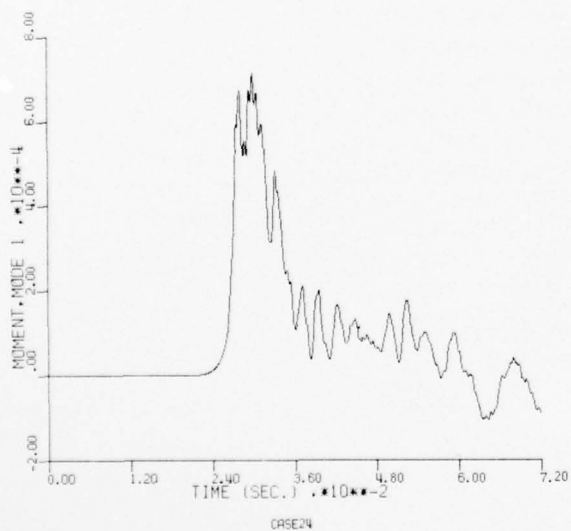
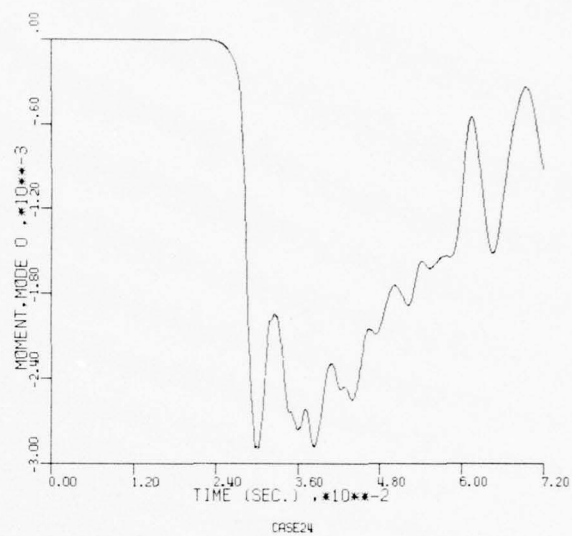
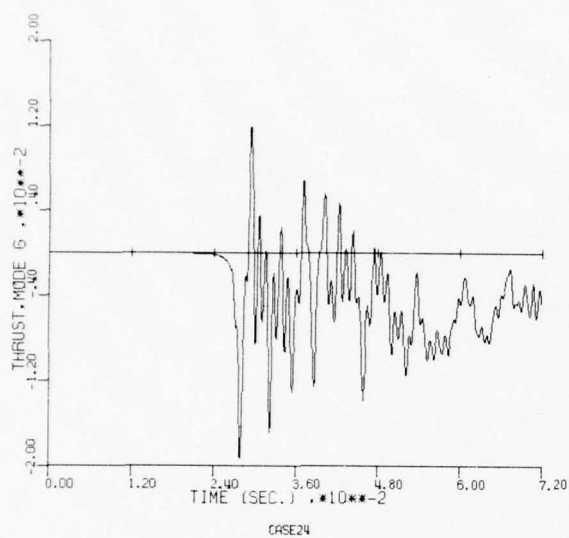
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .031311 .031252 .003487 .003215 .000307 .000293  
MIN. -.002893 -.003590 0.000000 -.006412 -.001499 -.000282 0.000000  
MAX. .000000 0.000000 .832816 1.010552 .993042 .994112 .994873  
INPUT  
VARIABLE  
.15998E-02  
-.19851E-21  
.10762E+00

INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-6  
SRSS .026504 .021663 .003422 .003487 .004075 .002178  
MIN. .670707 .590884 1.0009839 1.122178 1.111305 1.033342 1.043636  
MAX. 0.000000 14.393814 0.000000 6.066001 1.143378 3.360759 1.766387  
INPUT  
VARIABLE  
.13143E-01  
-.87119E+00  
.16359E-01

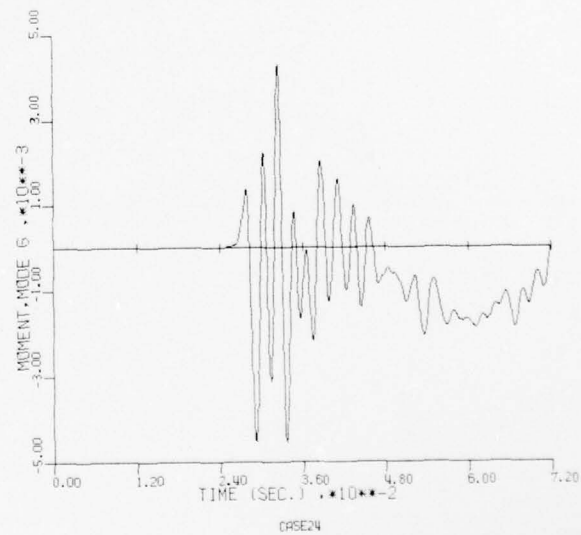
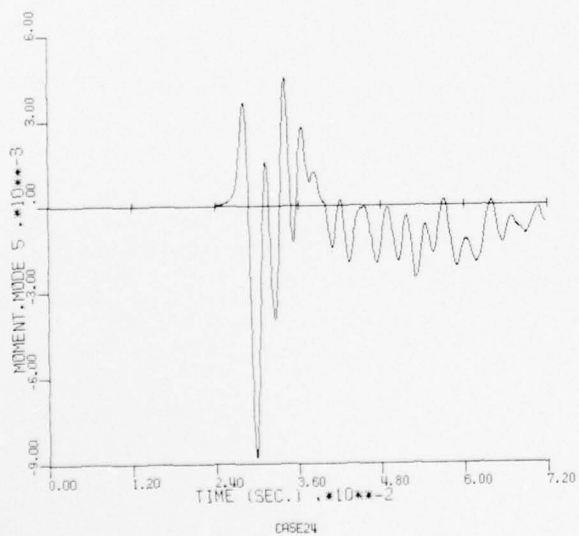
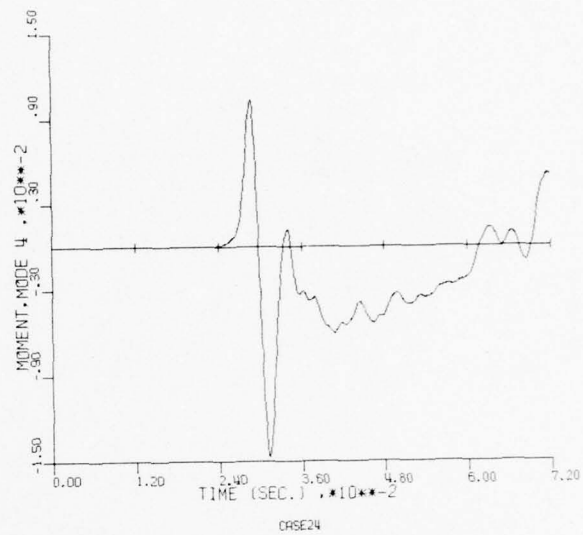
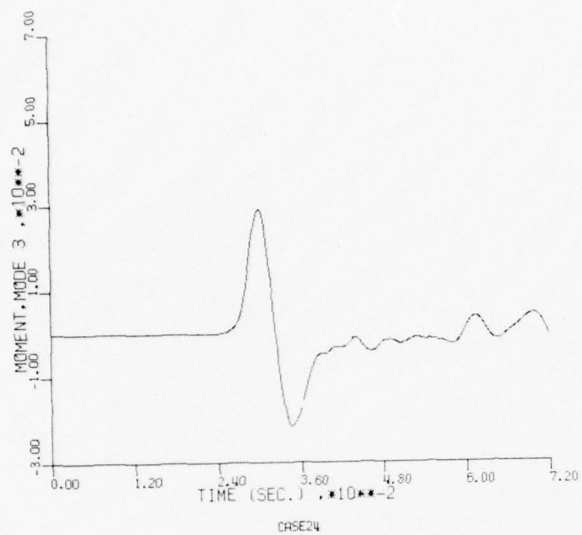


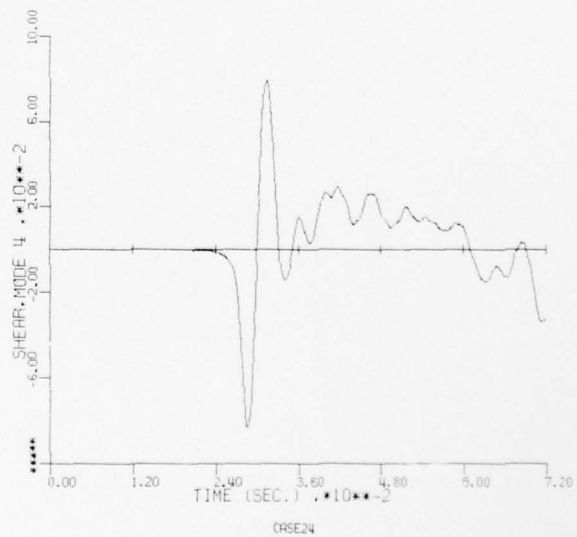
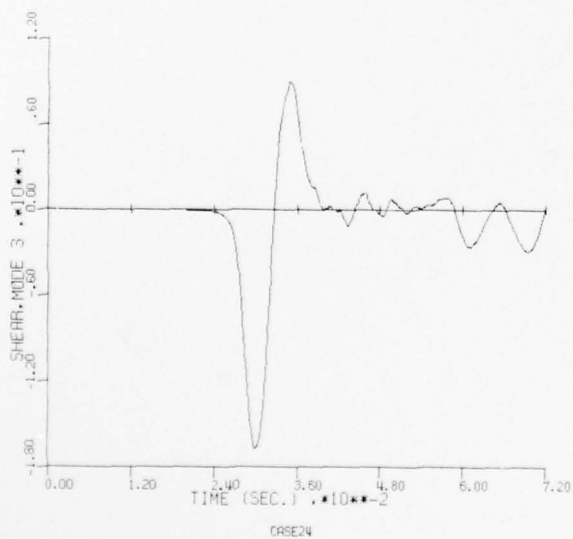
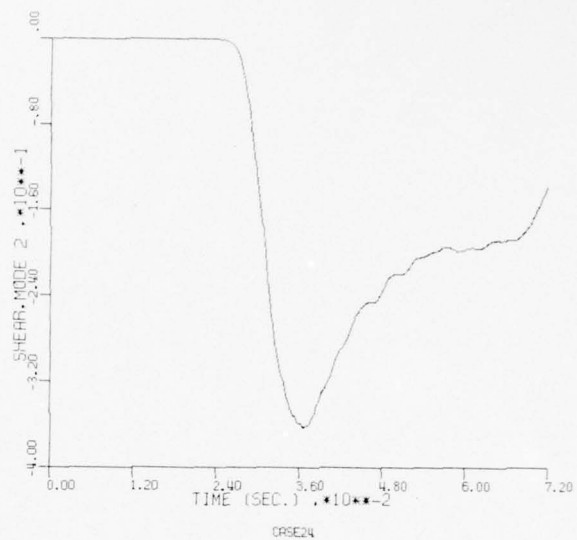
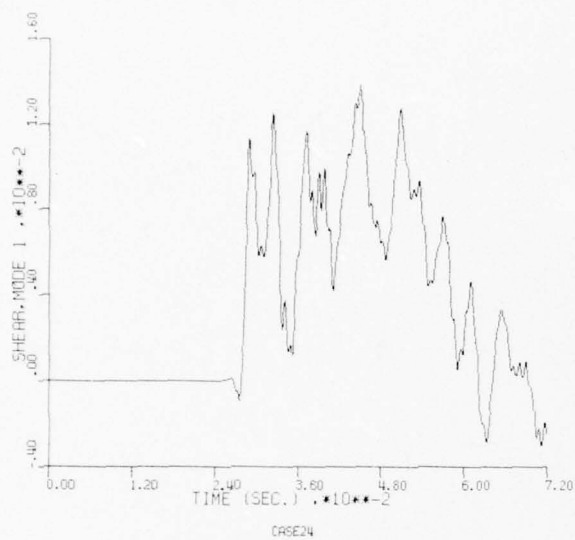












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IIT RESEARCH INST CHICAGO ILL  
THEORETICAL INVESTIGATION OF LOADS ON BURIED STRUCTURES. VOLUME--ETC(U)  
AUG 78 R R ROBINSON

F/G 18/3

F29601-76-C-0124

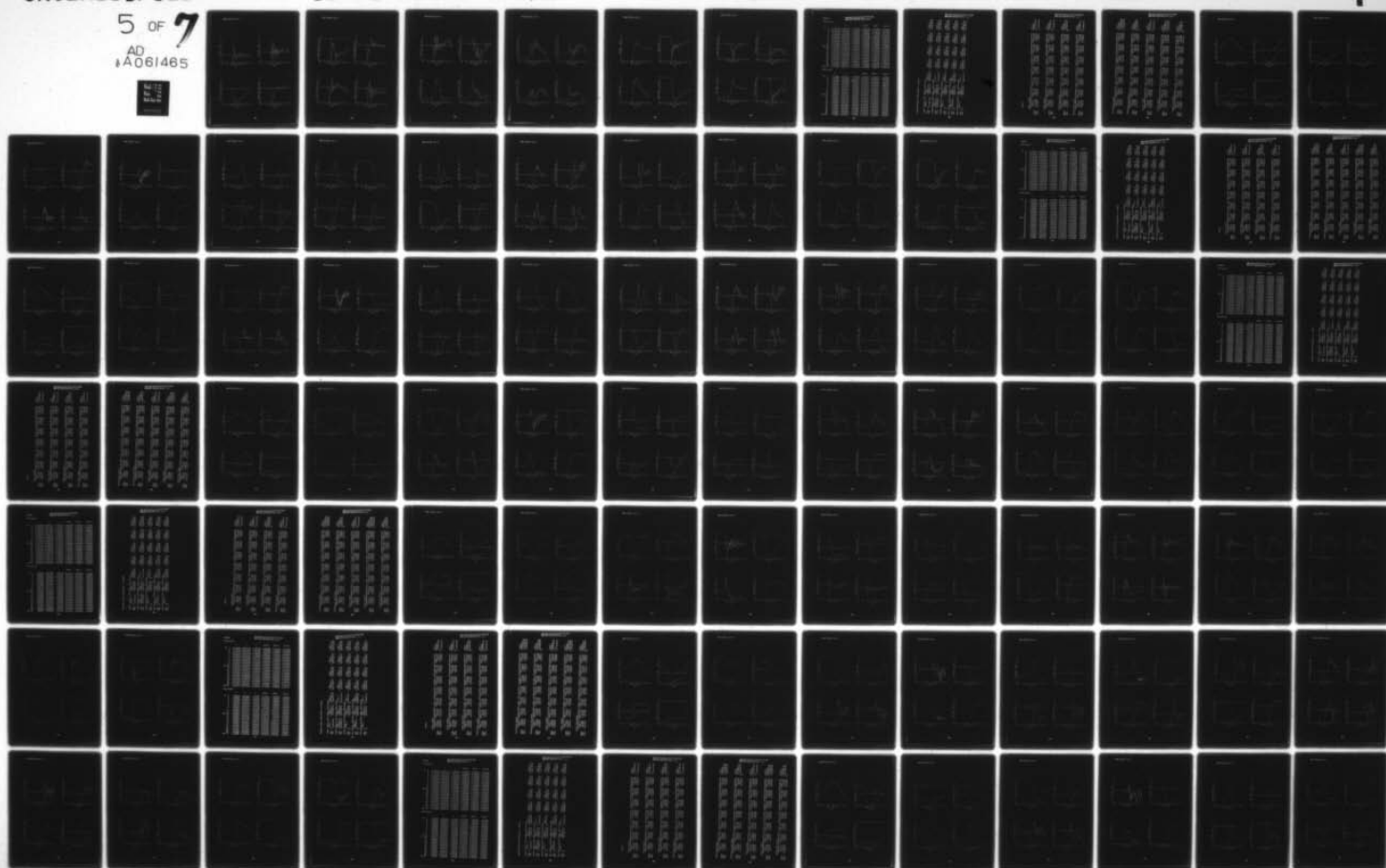
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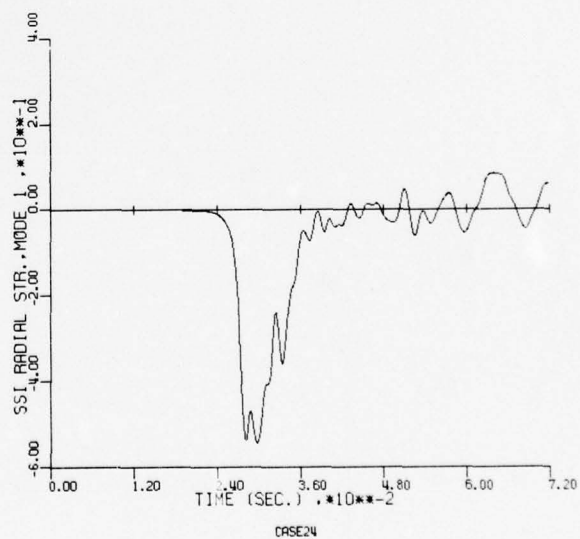
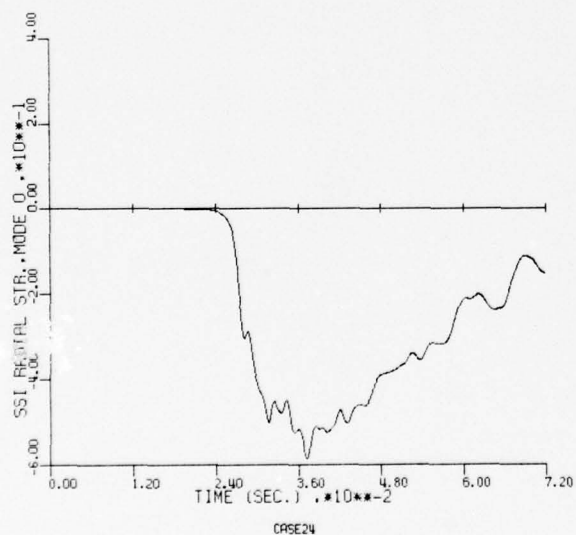
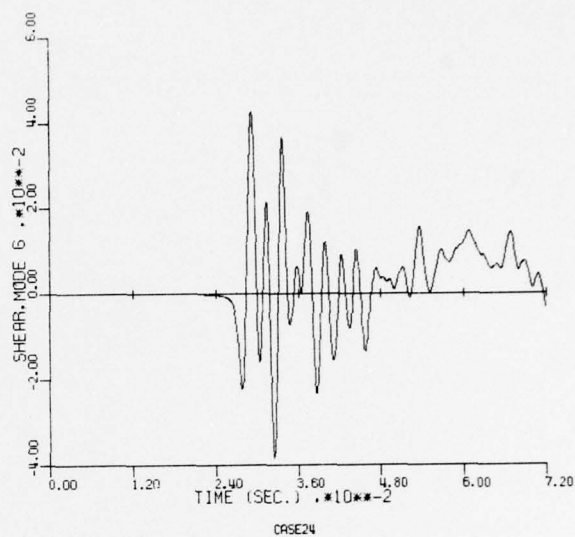
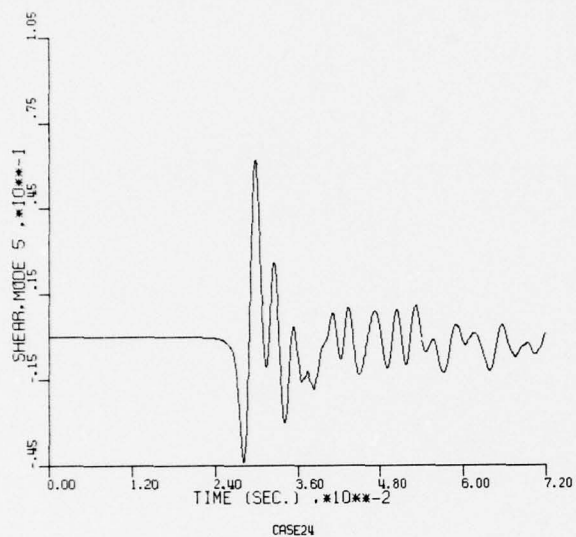
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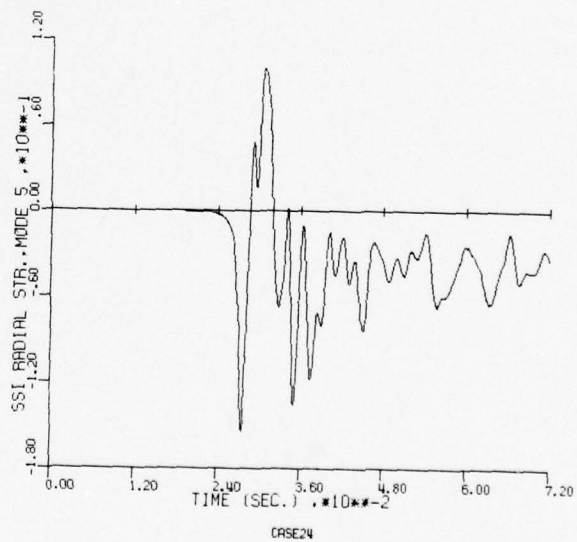
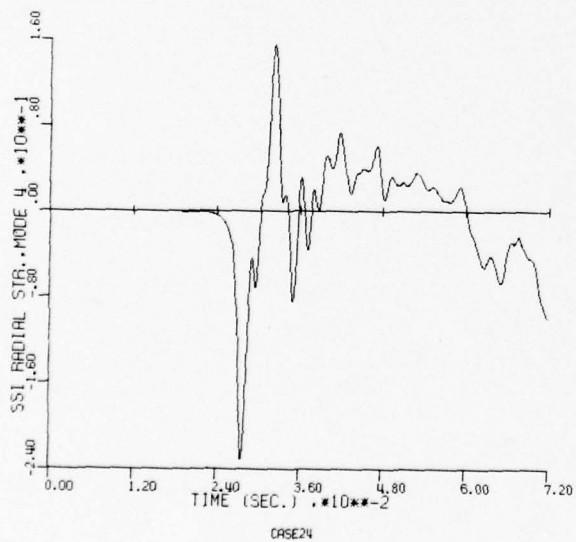
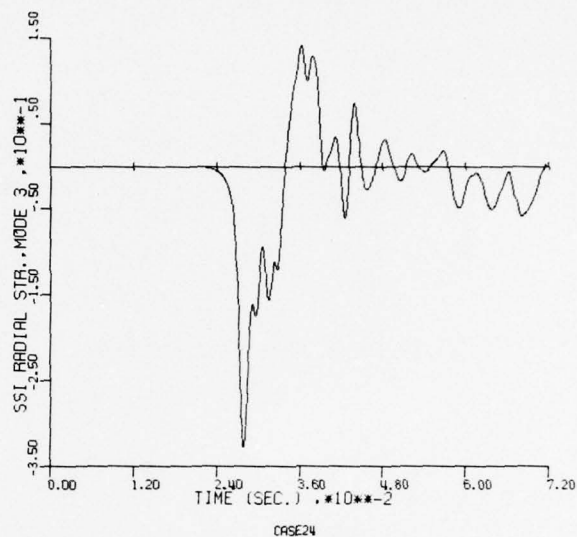
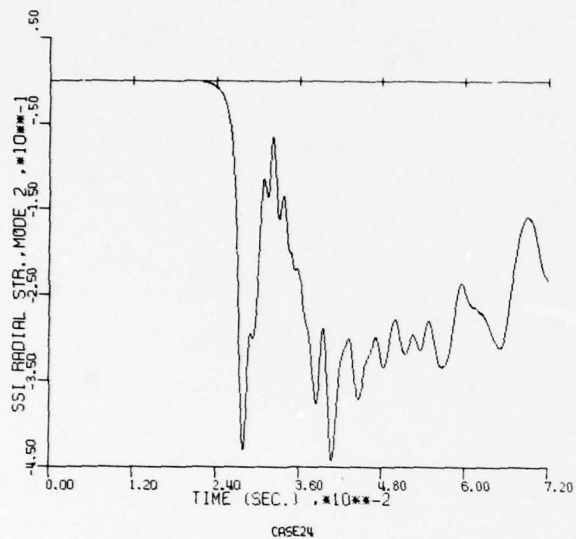
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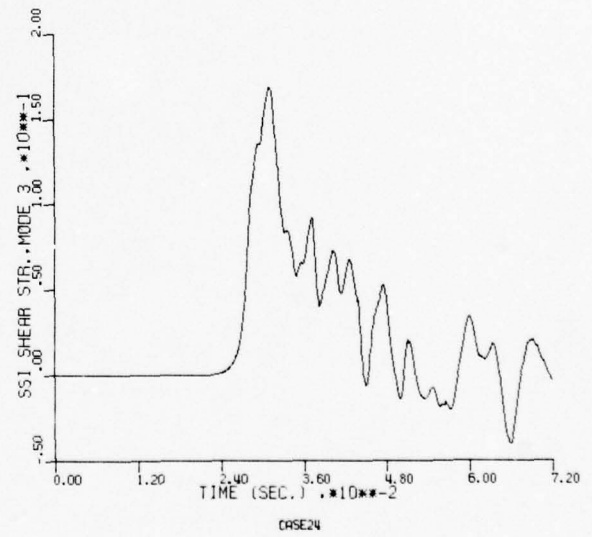
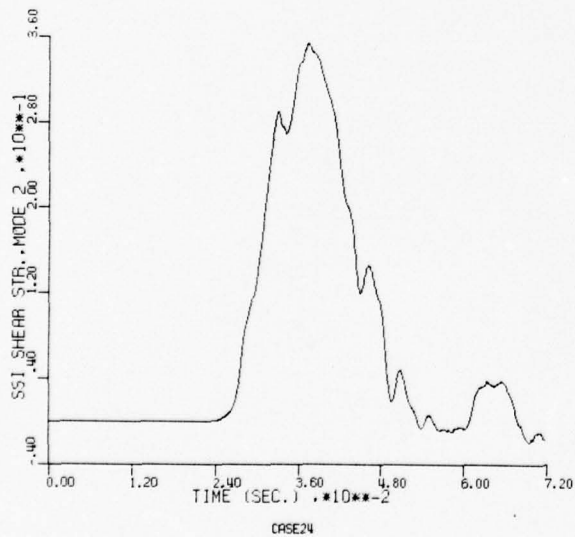
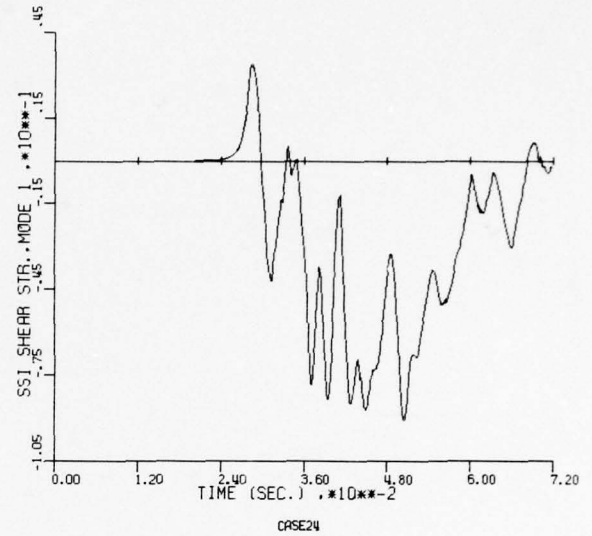
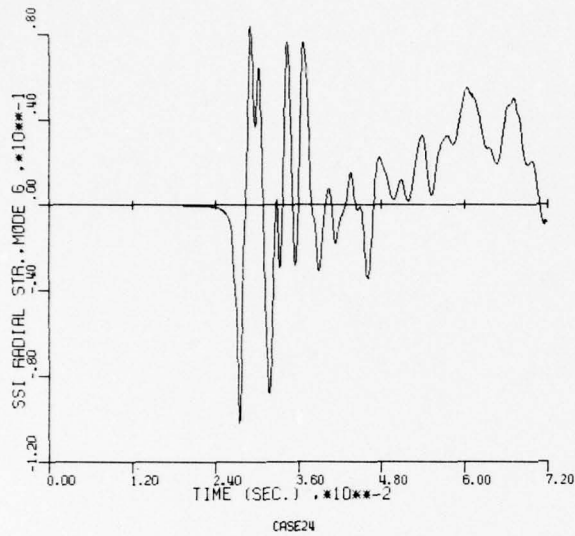
5 OF 7  
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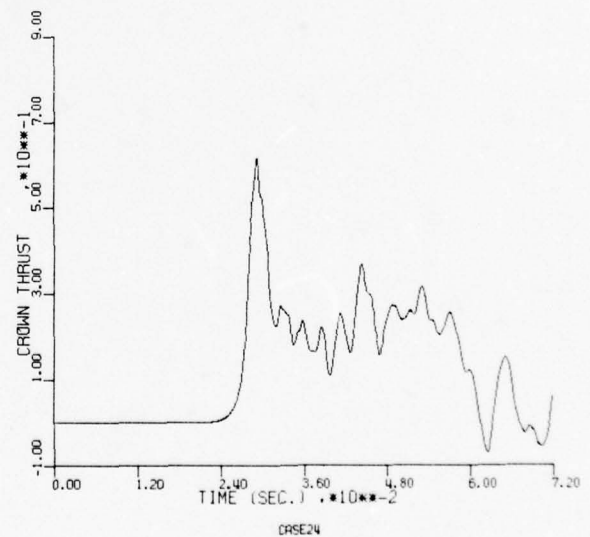
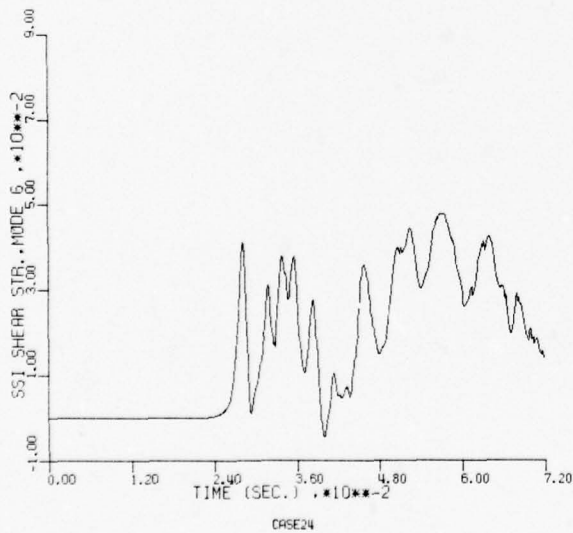
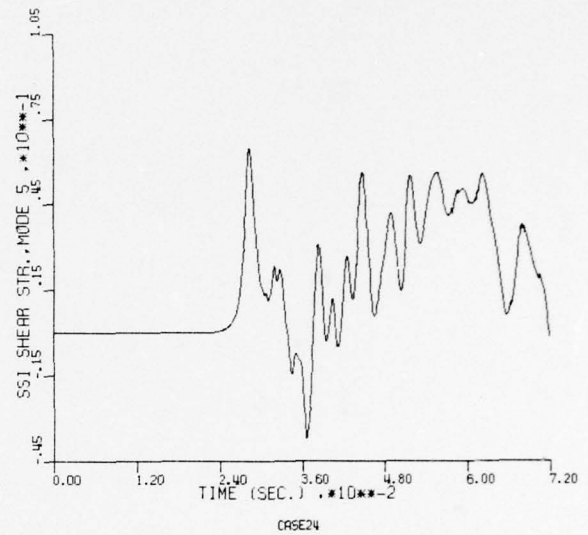
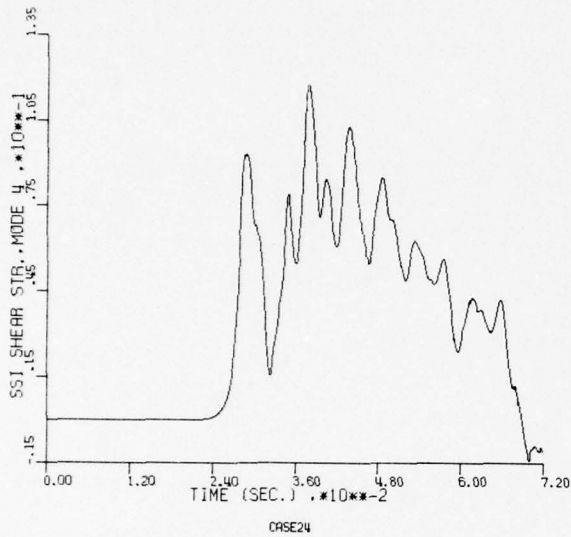


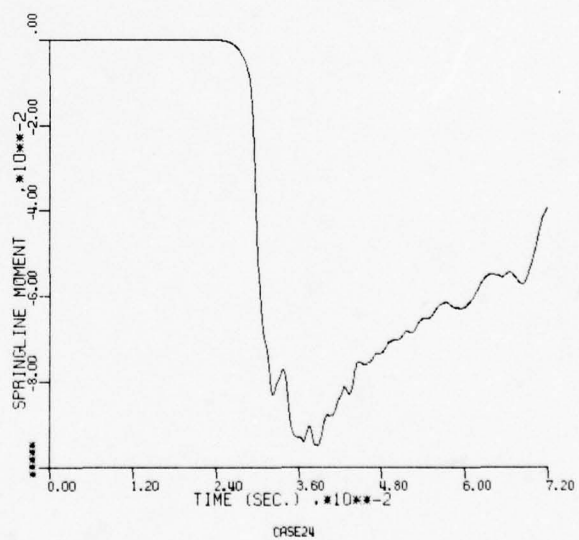
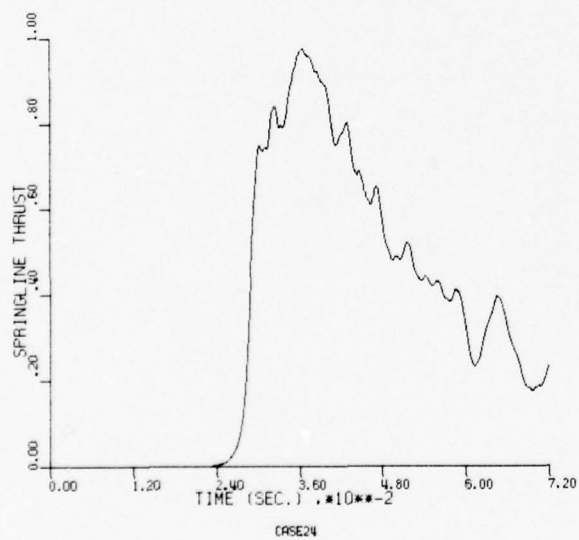
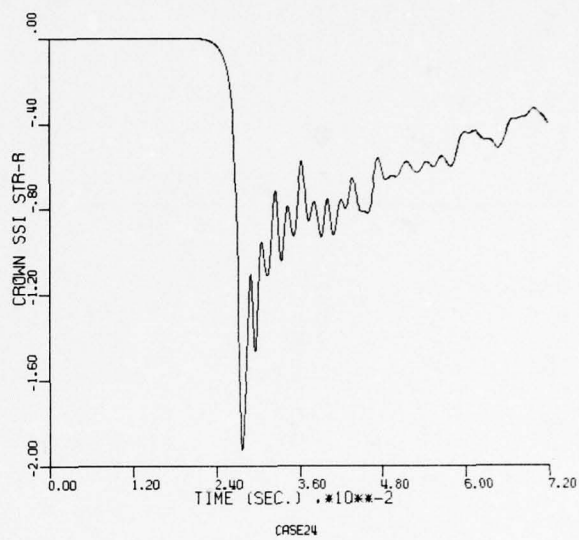
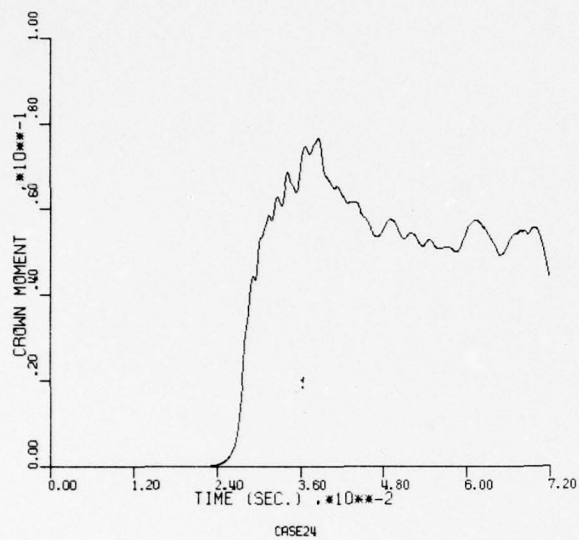


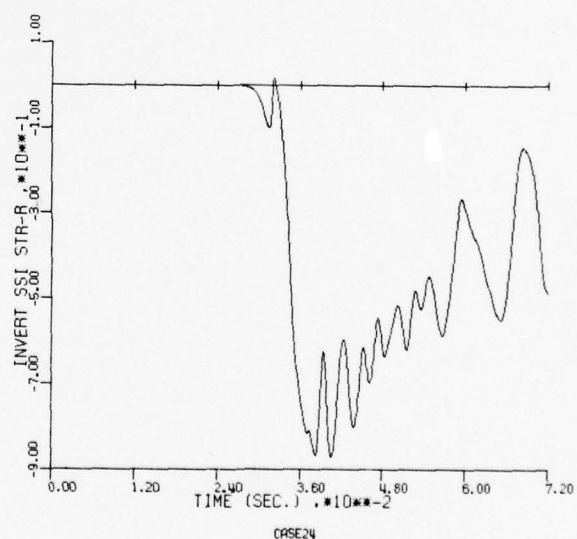
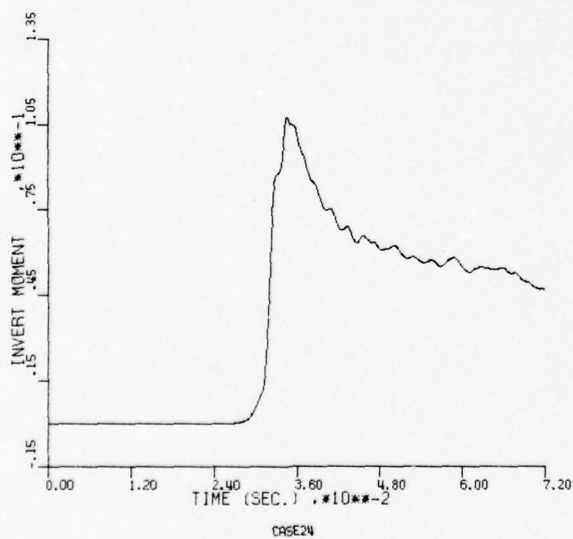
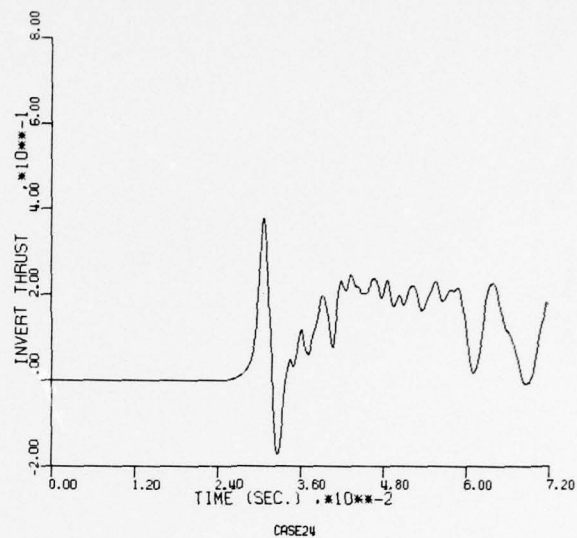
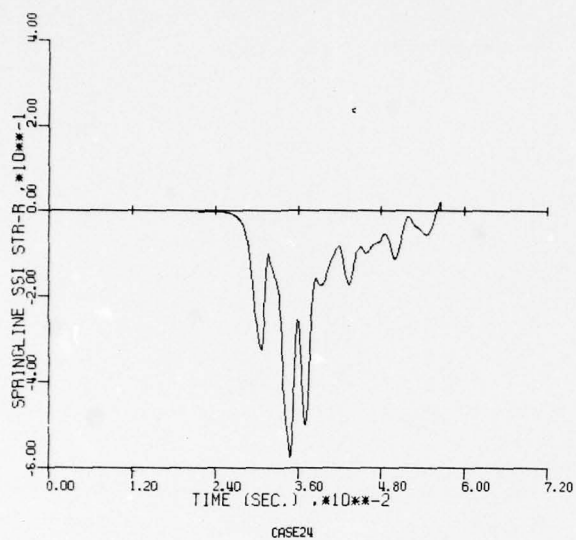














CASE25

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MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RI
CR	1	0.000000	0.000000	-.003994	-.248775	-.104842	-.001603
	2	0.000000	0.000000	-.009619	-.247669	-.105573	0.000000
	3	0.000000	0.000000	-.013285	-.235308	-.109236	0.000000
	4	0.000000	-.0000017	-.022211	-.228804	-.114048	0.000000
	5	0.000000	-.0001296	-.026715	-.209956	-.118238	0.000000
	6	0.000000	-.0004162	-.028307	-.205629	-.126020	0.000000
	7	0.000000	-.0007294	-.025418	-.207129	-.124464	0.000000
	8	0.000000	-.0010160	-.026648	-.187236	-.131320	-.002041
	9	0.000000	-.0012315	-.021058	-.187841	-.122754	-.020505
	10	0.000000	-.0013456	-.018952	-.183360	-.143085	-.056377
	11	0.000000	-.0013718	-.015054	-.178036	-.150018	-.079312
SPR	12	0.000000	-.0013766	-.010047	-.195245	-.145862	-.092936
	13	0.000000	-.0013608	-.000370	-.187591	-.159407	-.100227
	14	0.000000	-.0012913	-.005339	-.202122	-.146638	-.100944
	15	0.000000	-.0012114	-.000000	-.218841	-.143849	-.112460
	16	0.000000	-.0010428	-.000000	-.184393	-.111702	-.098343
	17	0.000000	-.0008883	-.000000	-.196774	-.120403	-.110173
	18	0.000000	-.0005791	-.000000	-.177436	-.089072	-.087447
	19	0.000000	-.0002360	-.001230	-.192881	-.119194	-.108549
	20	0.000000	-.0000000	-.001573	-.162209	-.097008	-.085648
	21	0.000000	-.0000000	-.006620	-.175475	-.111735	-.091554
	22	0.000000	-.0000000	-.006900	-.154820	-.090450	-.078775
	23	0.000000	-.0000000	-.005273	-.169276	-.089788	-.057733
INV	24	0.000000	-.0000000	-.003739	-.150293	-.092375	-.034162

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RI
CR	1	.144293	.0010716	.000035	0.000000	0.000000	.024562
	2	.150024	.0010212	.000000	0.000000	0.000000	.049851
	3	.160526	.0009155	0.000000	0.000000	0.000000	.077194
	4	.171957	.0007535	0.000000	0.000000	0.000000	.081364
	5	.186839	.0005736	.000000	0.000000	0.000000	.095278
	6	.200961	.0003201	.000000	0.000000	0.000000	.088614
	7	.213046	.0000557	.000256	0.000000	0.000000	.098213
	8	.222013	.0000000	.001186	0.000000	0.000000	.078201
	9	.228344	.0000000	.005576	0.000000	0.000000	.101557
	10	.227240	.0000000	.006710	0.000000	0.000000	.092308
	11	.231578	.0000000	.016872	0.000000	0.000000	.107486
SPR	12	.229817	.0000000	.021771	0.000000	0.000000	.086555
	13	.228149	.0000019	.025350	0.000000	0.000000	.115344
	14	.219565	.0000182	.027820	0.000000	0.000000	.015155
	15	.203810	.0000711	.024740	0.000000	0.000000	.033994
	16	.193658	.0001749	.026819	0.000000	0.000000	.004450
	17	.177504	.0003387	.024673	0.000000	0.000000	.000000
	18	.166210	.0005132	.027568	0.000000	0.000000	.000000
	19	.144813	.0005893	.025623	0.000000	0.000000	.000000
	20	.134559	.0006964	.030239	0.000000	0.000000	.000000
	21	.117105	.0008984	.024495	0.000000	0.000000	.000000
	22	.109503	.0011982	.019288	0.000000	0.000000	.000000
	23	.103469	.0014307	.011642	0.000000	0.000000	.000000
INV	24	.102929	.0015272	.001530	0.000000	0.000000	.000000



MIN-MAX MODAL AMPLITUDES -- CASE25

LINER THRUST PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.30154E-01	-.60590E-01	-.26060E-01	-.95830E-02	-.45532E-02	-.33961E-02
MAX	.15457E+00	.68897E-01	.22416E-01	.11975E-01	.64607E-02	.31344E-02
LINER MOMENT PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.53907E-04	-.15032E-05	-.24818E-03	-.32458E-03	-.17760E-03	-.83172E-04
MAX	.22023E-15	.38704E-05	.56095E-03	.17177E-03	.68735E-04	.54418E-04
LINER SHEAR PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.95962E-03	-.18363E-01	-.12382E-01	-.51592E-02	-.23575E-02	-.22479E-02
MAX 0.	.15822E-02	0.	.63936E-02	.89665E-02	.61349E-02	.34617E-02
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.14809E+00	-.98860E-01	-.21228E-01	-.13322E-01	-.89746E-02	-.69785E-02
MAX 0.	.34951E-01	.37677E-01	.13945E-01	.21745E-01	.16080E-01	.14617E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.20767E-01	0.	-.41568E-01	-.21879E-01	-.15832E-01	-.76745E-02
MAX 0.	.24321E-01	.92480E-01	.51577E-01	.23025E-01	.17489E-01	.14673E-01

CASE 25

CROWN THRUST

```

*****
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE ***** MODES 0-5 MODES 0-6
.041503 .021192 .007058 .003198 .001993 .000798 .000276
0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000
1.071209 1.388847 1.211192 1.062537 1.000789 .992964 .998144
INPUT
VARIABLE
.27455E+02
0.
.14429E+00

```

GRSS  
MIN.  
MAX.

CROWN MOMENT

```

*****
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE ***** MODES 0-5 MODES 0-6
.075546 .075621 .013160 .001359 .000179 .000114 .001012
-.000054 -.000054 0.000000 0.000000 0.000000 0.000000 0.000000
.000000 .000000 1.178600 1.138286 1.040165 .996129 .988070
INPUT
VARIABLE
.30533E+04
0.
.10716E+02

```

GRSS  
MIN.  
MAX.

CROWN SSI SIR-R

```

*****
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE ***** MODES 0-5 MODES 0-6
.016232 .003349 .004782 .000101 .002737 .002809 .000796
.595289 .785676 .918556 .986117 1.027342 1.029859 1.018651
0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000
INPUT
VARIABLE
.39222E+02
-.24878E+00
0.

```

GRSS  
MIN.  
MAX.

SPRINGLINE THRUST

```

*****
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE ***** MODES 0-5 MODES 0-6
.011129 .011827 .002936 .001870 .001240 .000745 .000184
0.000000 0.000000 -.000000 -.000000 -.000000 0.000000 0.000000
.672509 .677093 .937366 .947094 .995040 .994615 1.002537
INPUT
VARIABLE
.52538E+02
0.
.22982E+00

```

GRSS  
MIN.  
MAX.

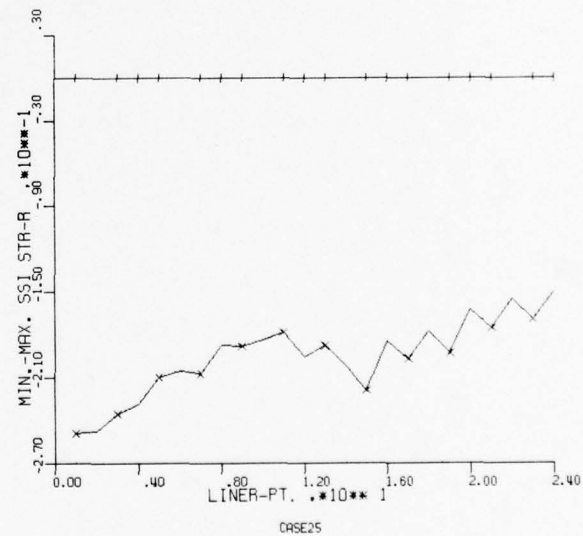
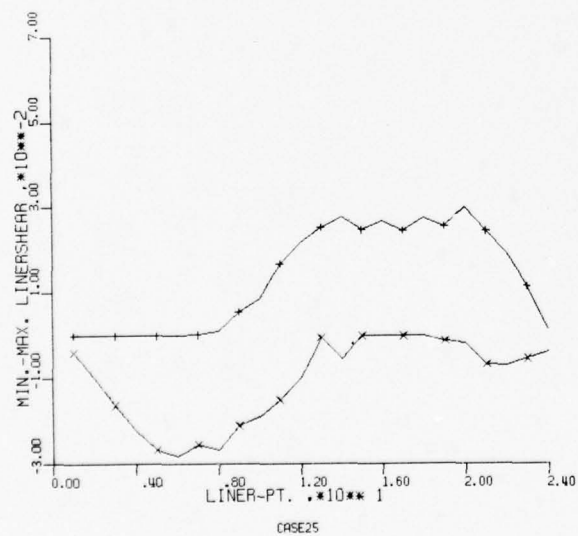
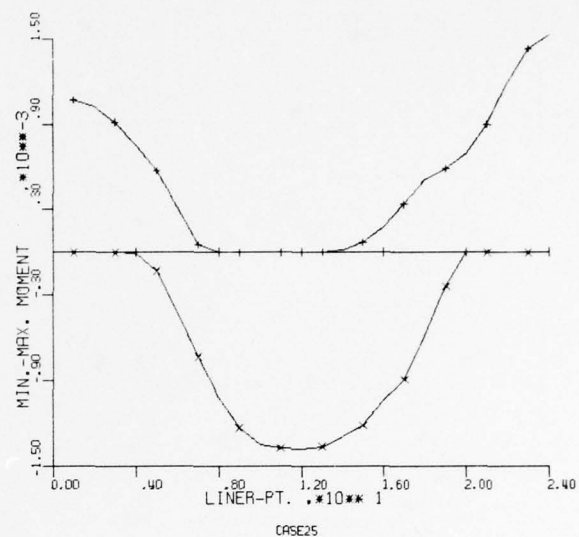
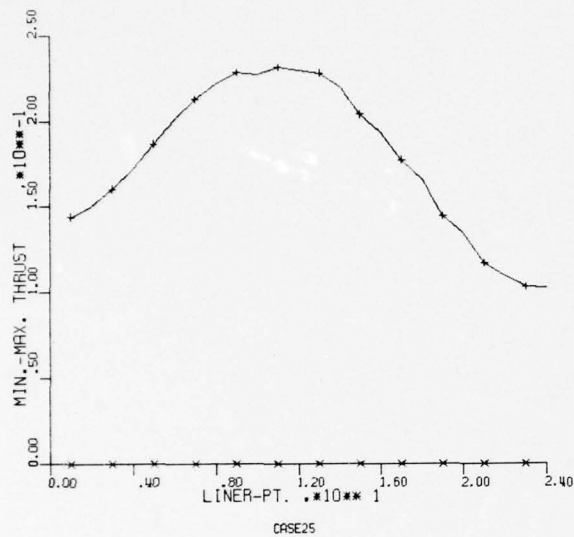
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-5 MODES 0-6  
SRSS .070877 .070873 .000084 .002387 .003614 .003534 .004251  
MIN. .039161 .039147 .973839 .973160 1.017960 1.005227 1.004202  
MAX. .000000 .000000 0.000000 0.000000 .000000 .000001 .000000  
INPUT  
VARIABLE  
.38293E-04  
-.13766E-02  
.21224E-07

SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-5 MODES 0-6  
SRSS .007883 .007051 .005639 .006550 .009152 .009176 .011160  
MIN. .758499 .764280 .943975 .936695 .889672 .881257 .926762  
MAX. 0.000000 0.000000 .000133 .000588 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.39815E-02  
-.19525E+00  
0.

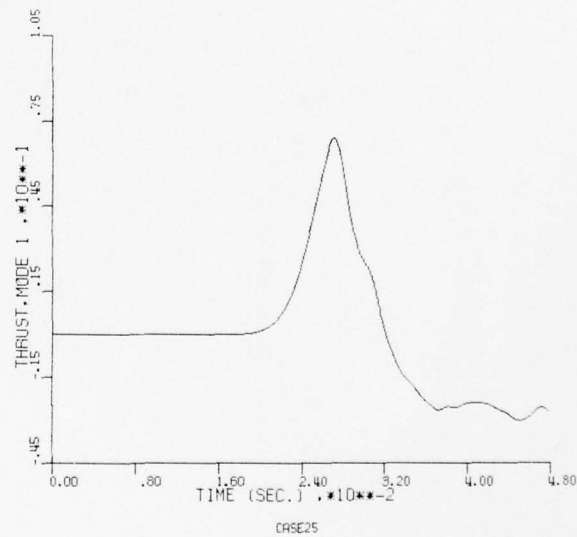
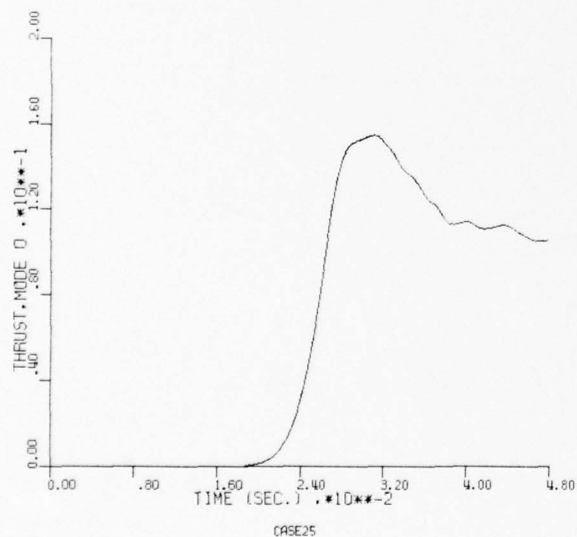
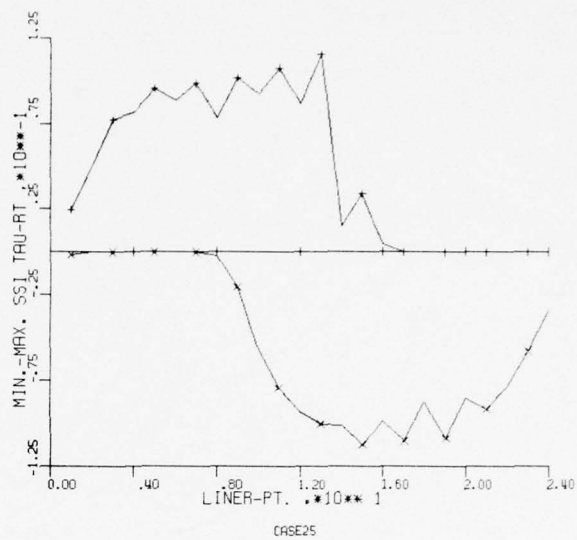
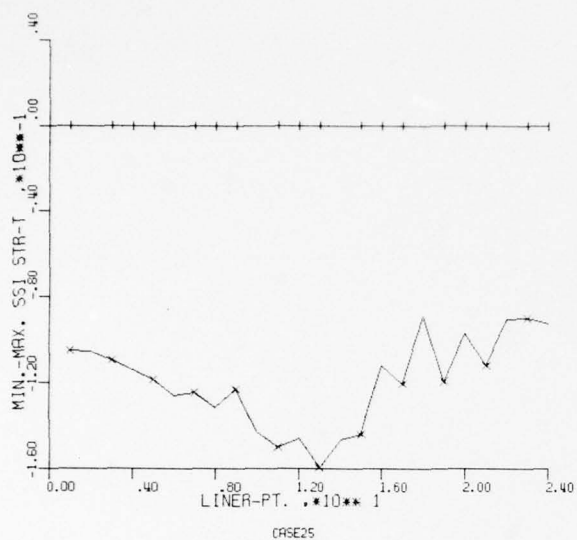
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-5 MODES 0-6  
SRSS .016585 .037815 .008374 .002314 .003570 .000662 .000457  
MIN. 0.000000 -.000076 0.000000 -.000000 -.000000 -.000000 -.000000  
MAX. 1.501690 1.499724 1.009903 .961430 1.003534 1.019228 1.003089  
INPUT  
VARIABLE  
.26345E-02  
0.  
.10293E+00

INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-5 MODES 0-6  
SRSS .084787 .084722 .008575 .003878 .005197 .005449 .004678  
MIN. -.000054 -.000055 0.000000 -.000113 -.000001 -.000001 0.000000  
MAX. .000000 0.000000 .828510 .970037 .985653 1.054355 1.052147  
INPUT  
VARIABLE  
.35599E-04  
-.41649E-25  
.15272E-02

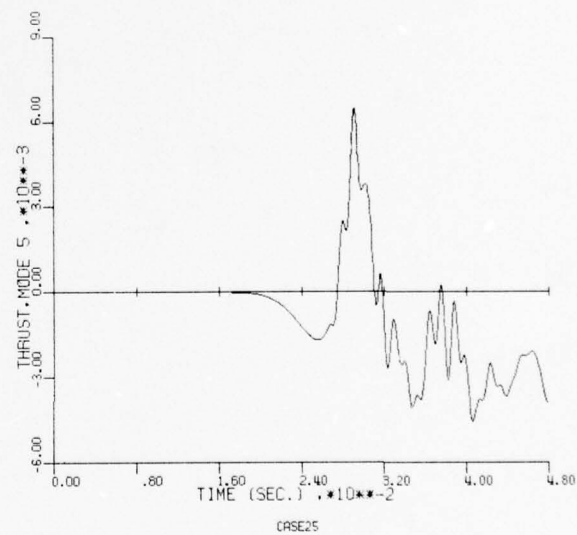
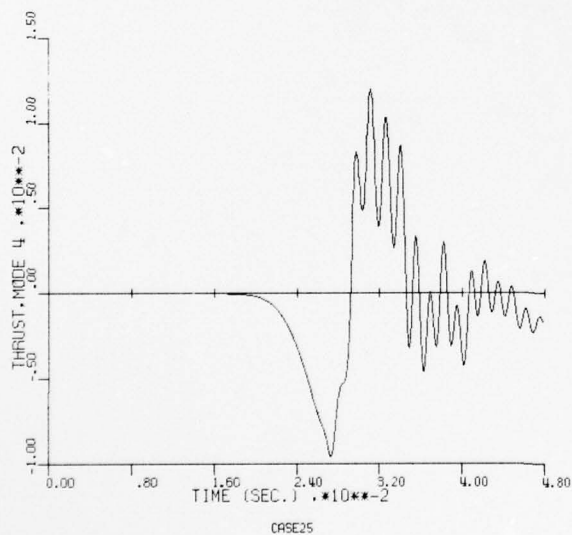
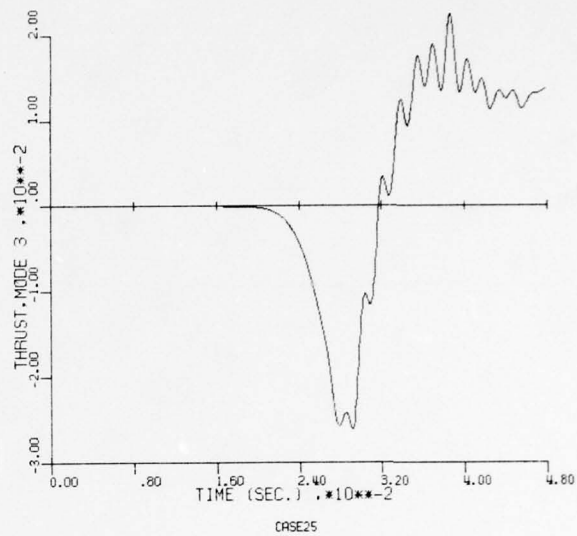
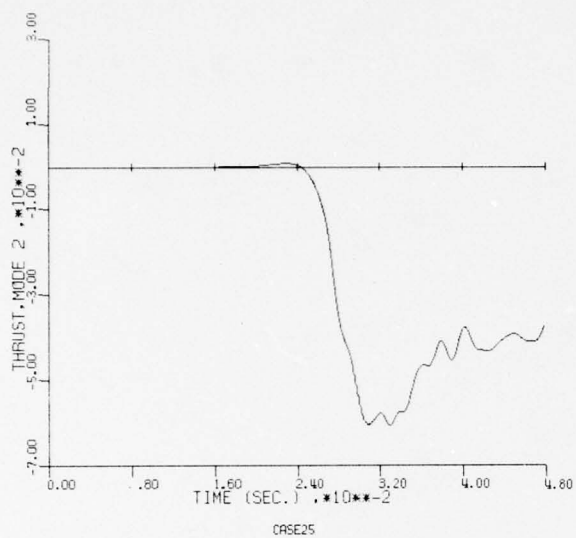
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT VARIABLE \*\*\*\*\* MODES 0-5 MODES 0-6  
SRSS .009075 .006106 .007790 .013311 .016417 .016333 .013960  
MIN. .085305 1.064814 .983626 1.041565 1.066378 1.146875 1.129979  
MAX. 0.000000 .015149 0.000000 .002655 0.000000 .000105 0.000000  
INPUT  
VARIABLE  
.33285E-02  
-.15029E+00  
0.

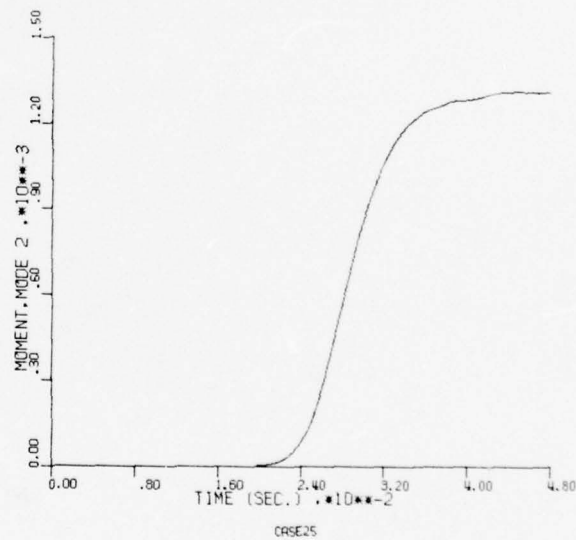
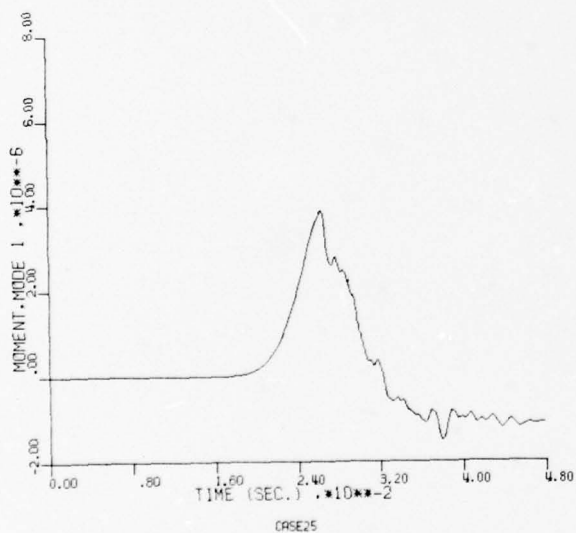
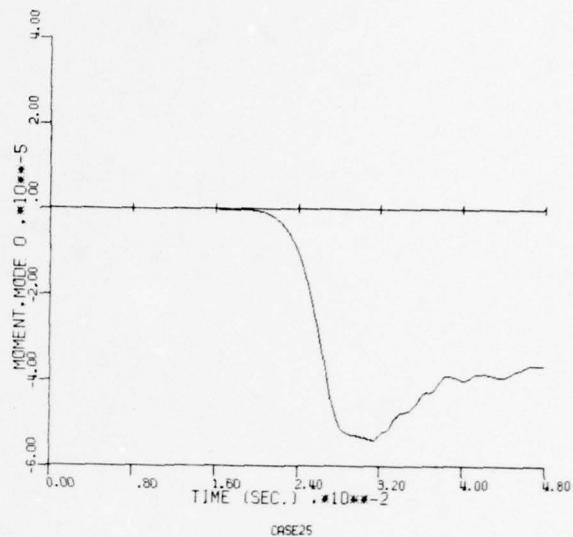
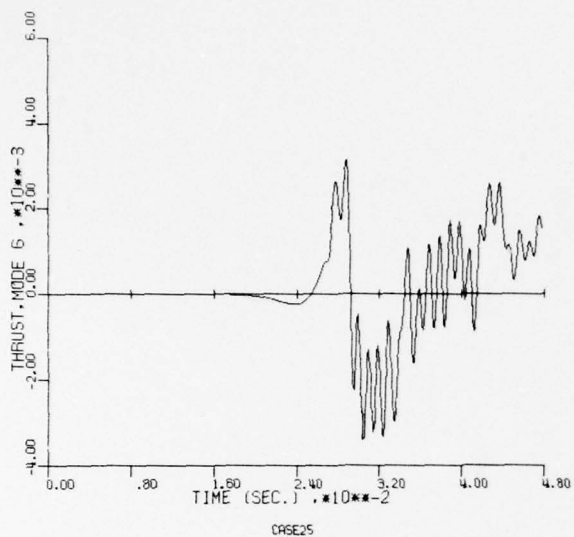


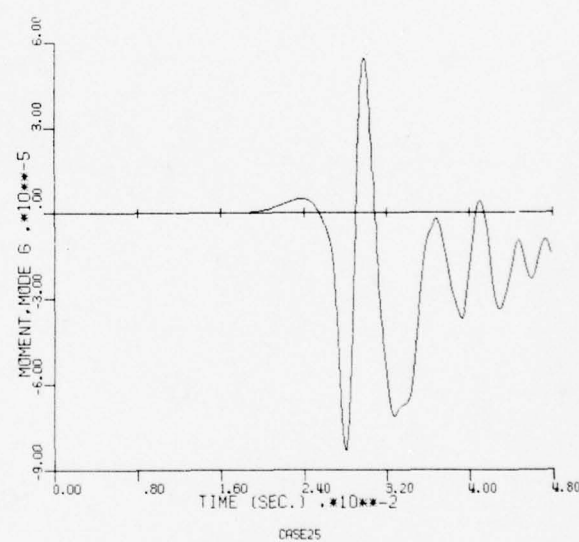
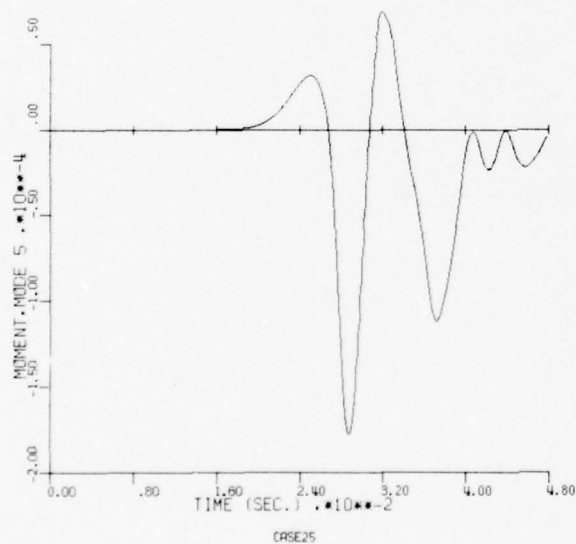
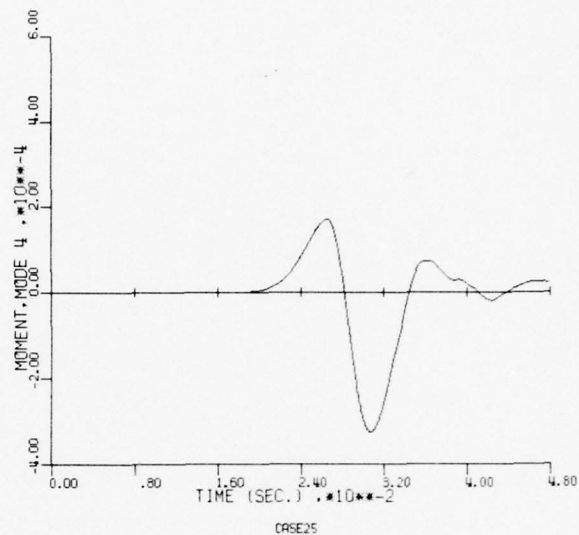
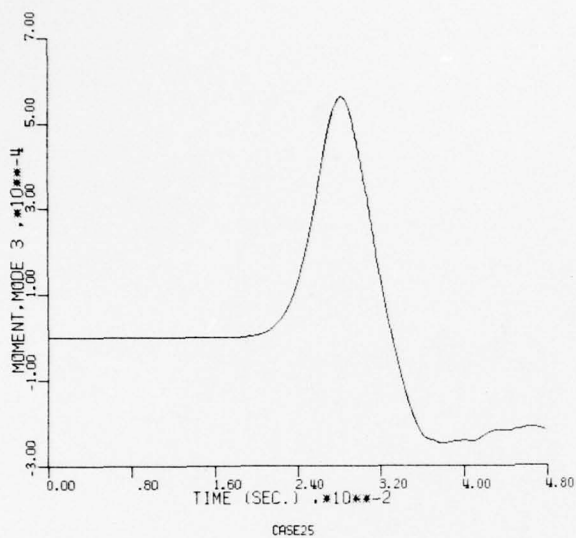


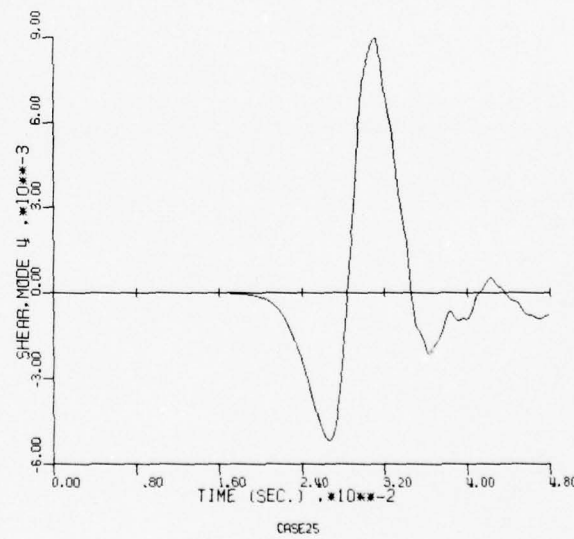
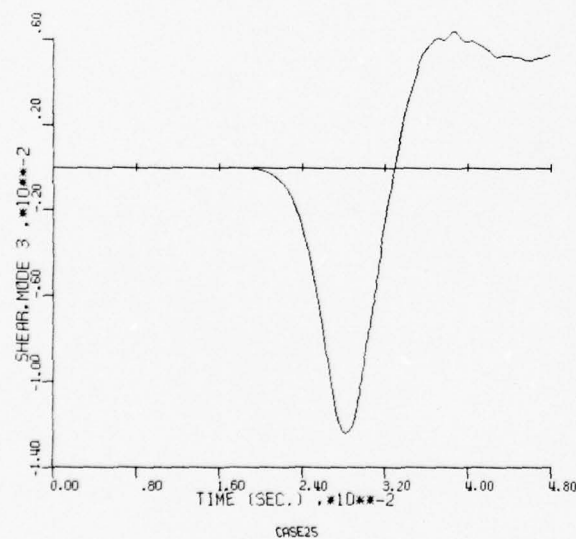
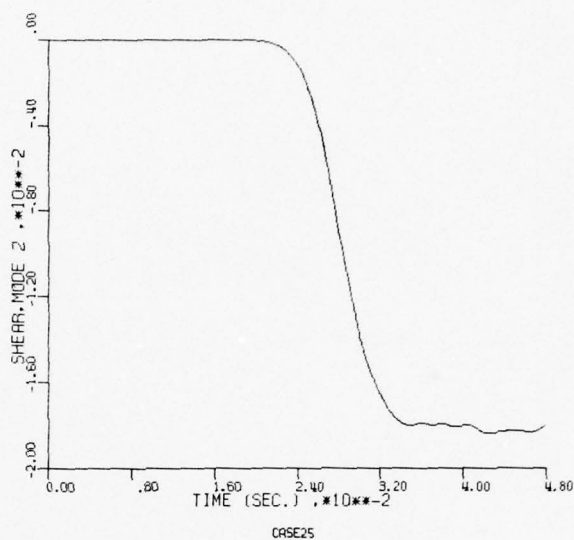
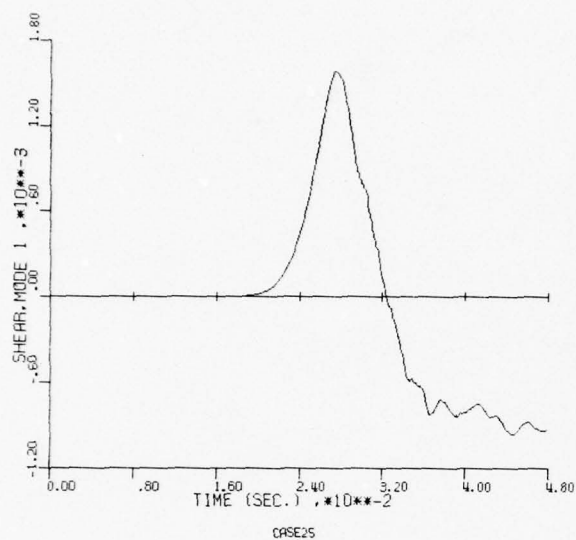


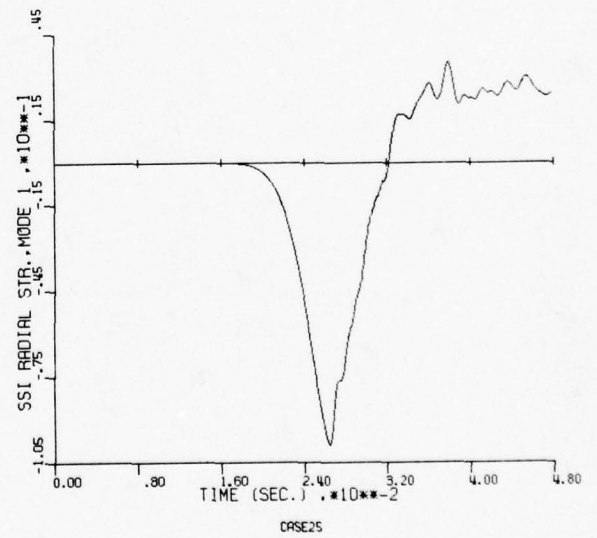
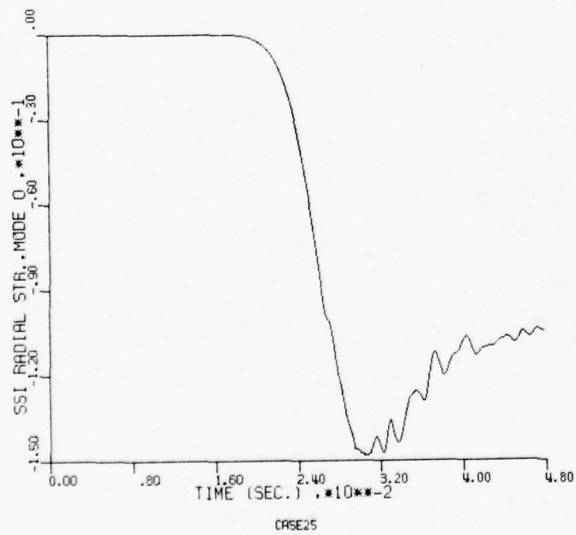
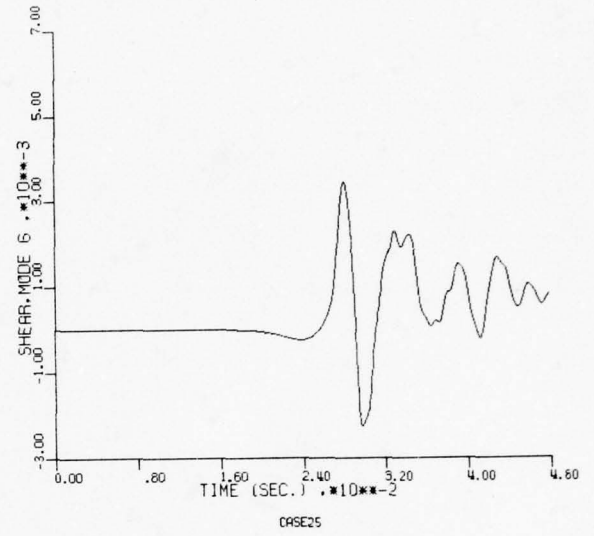
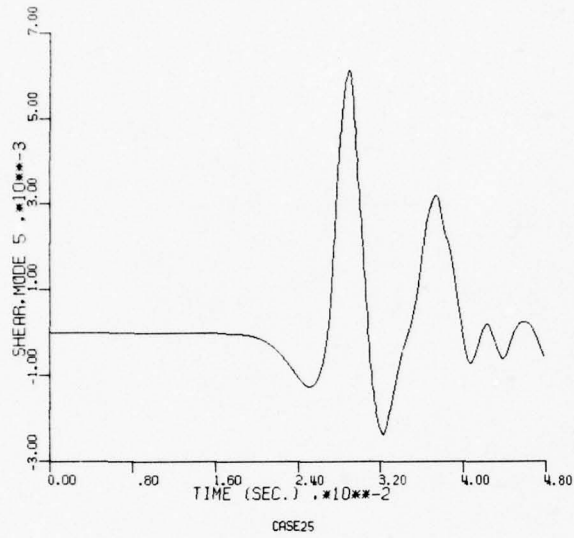




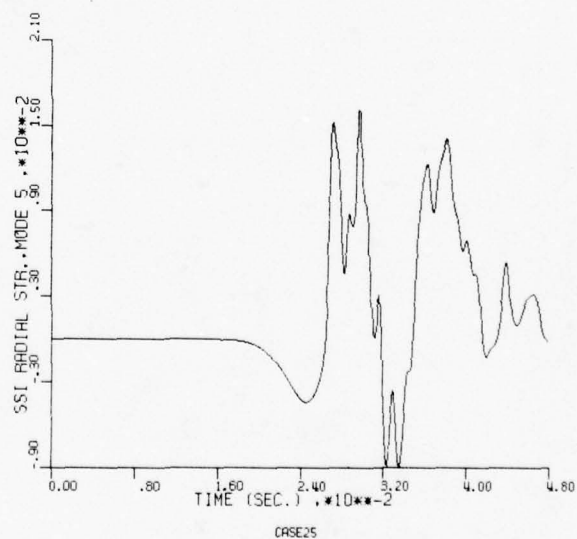
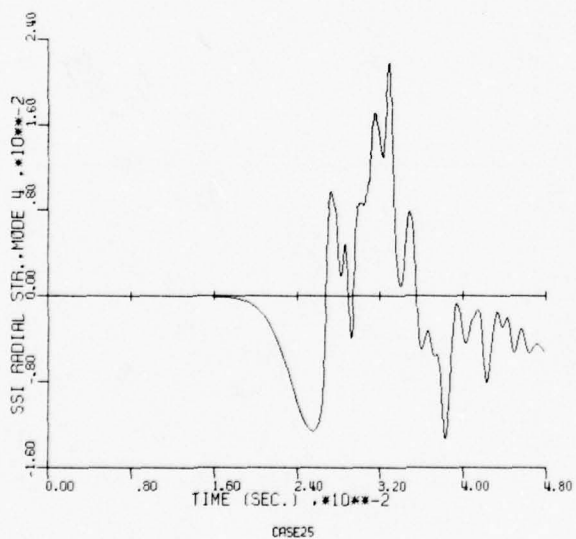
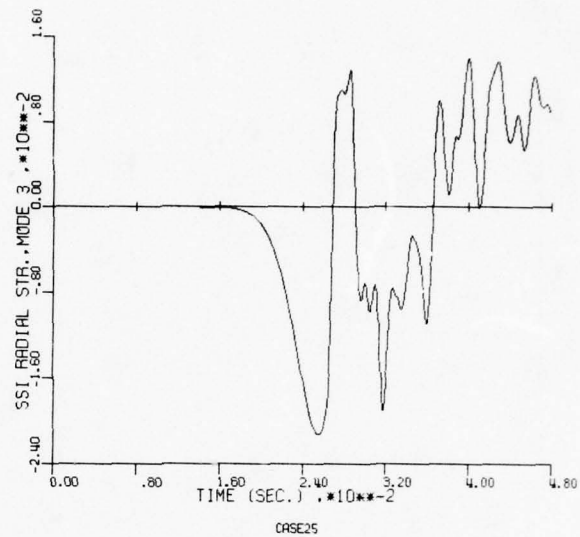
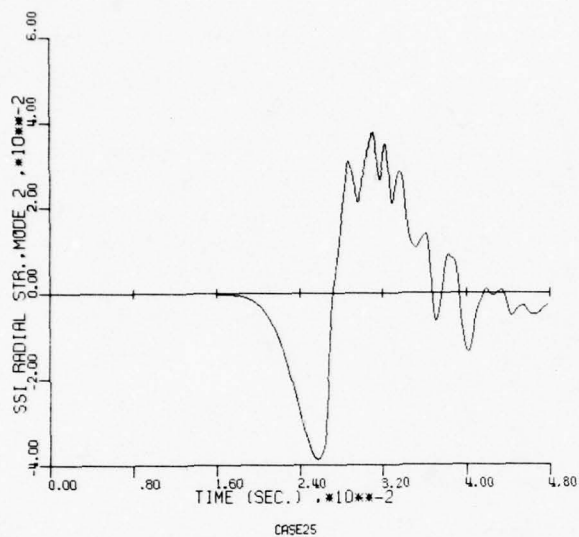


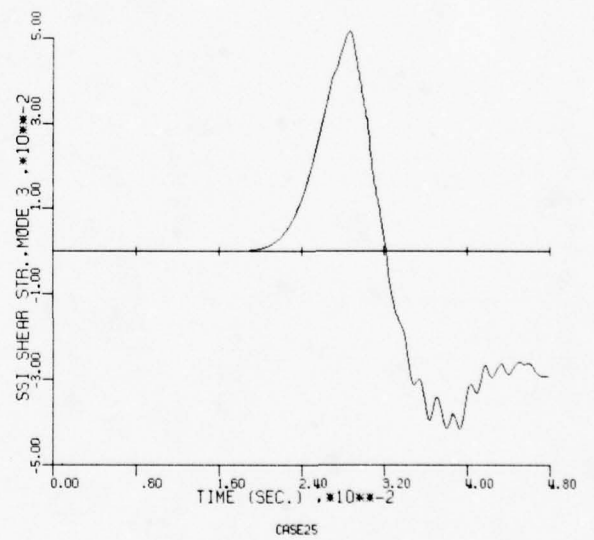
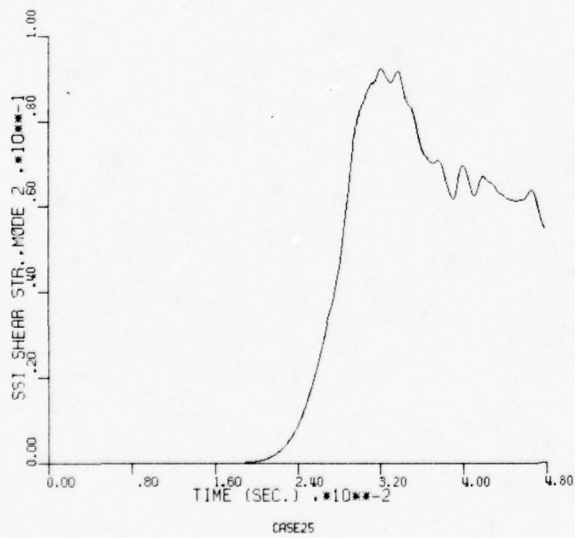
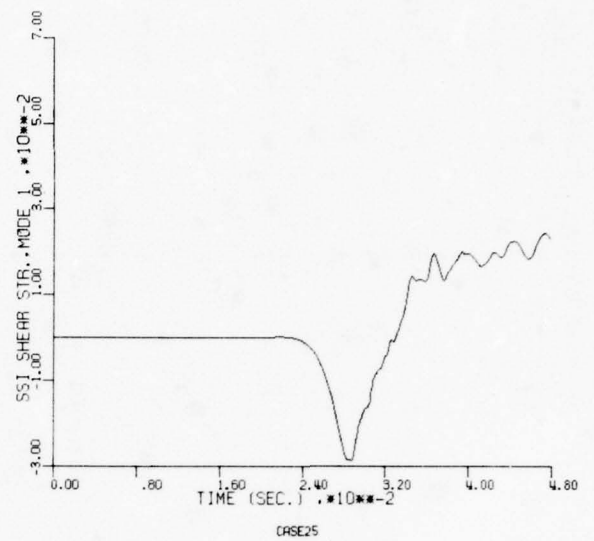
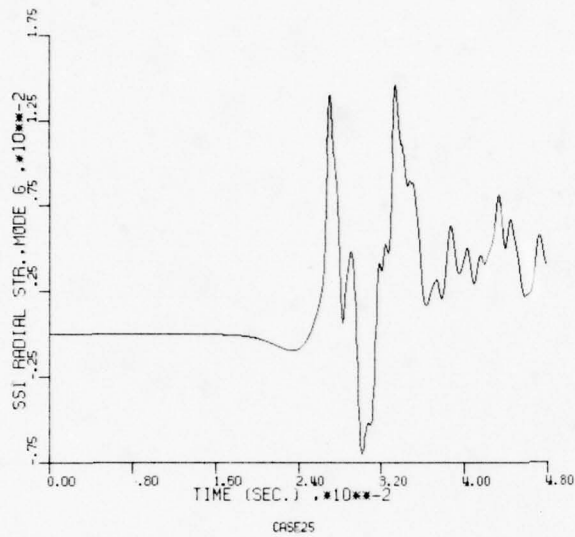


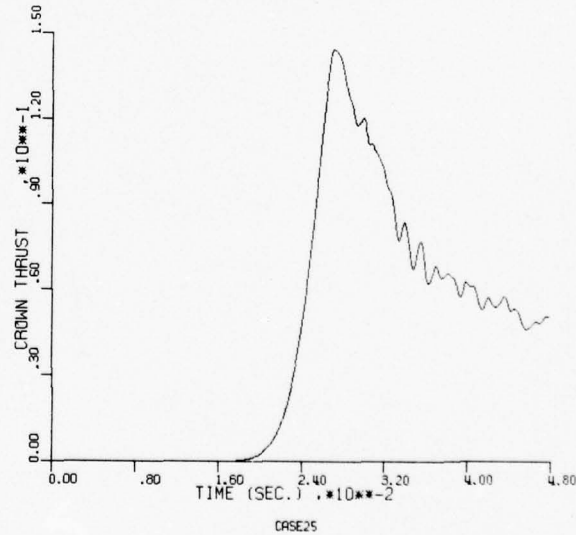
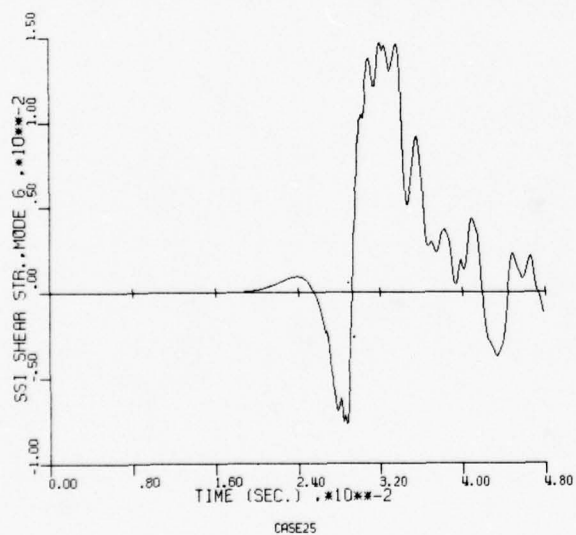
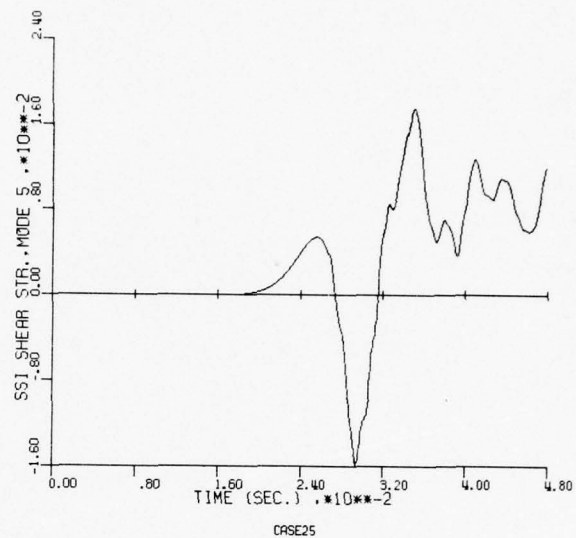
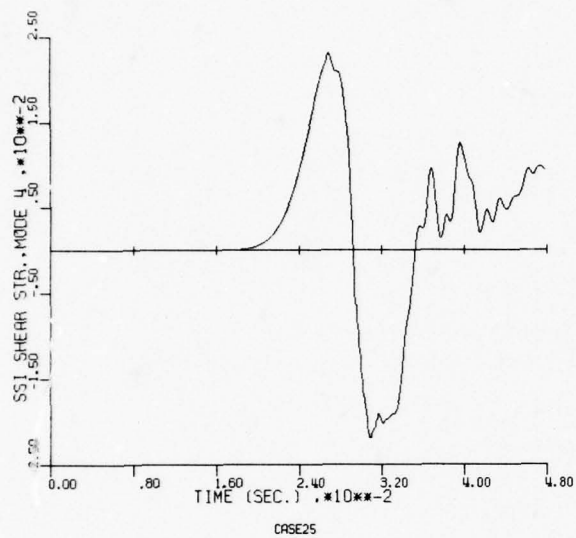


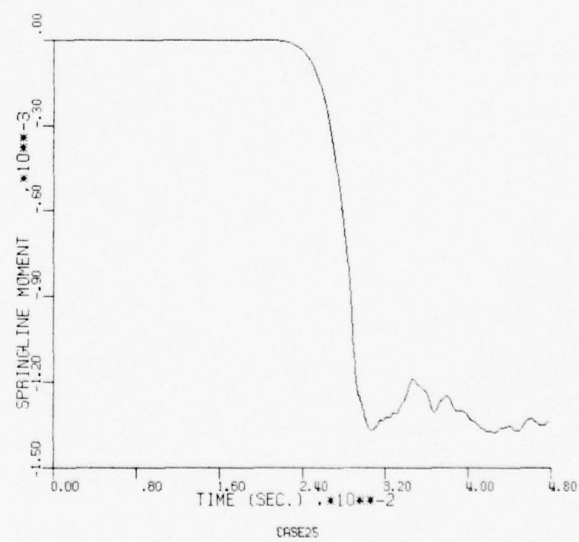
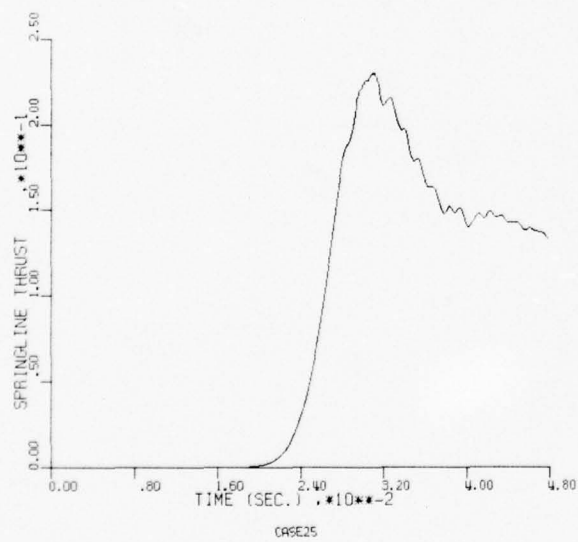
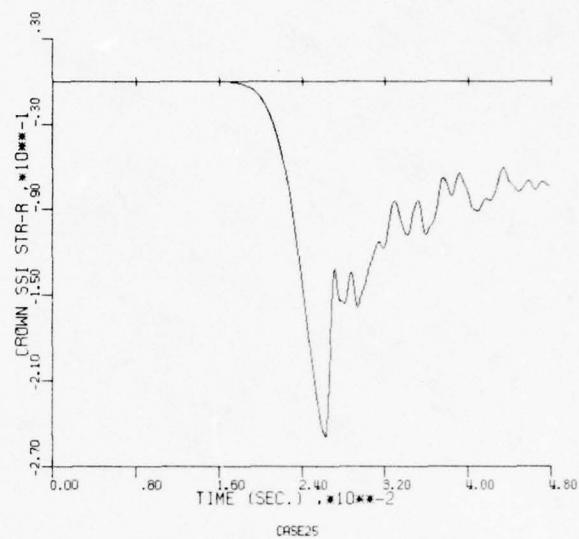
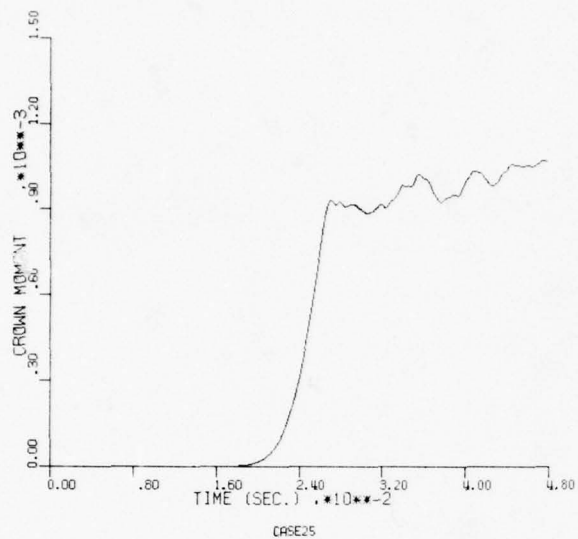


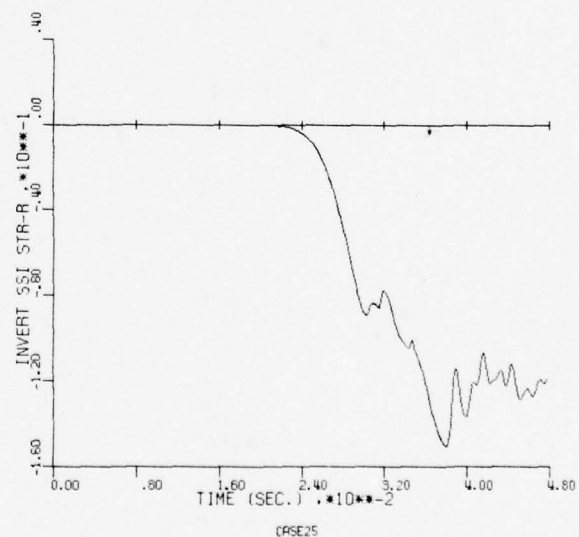
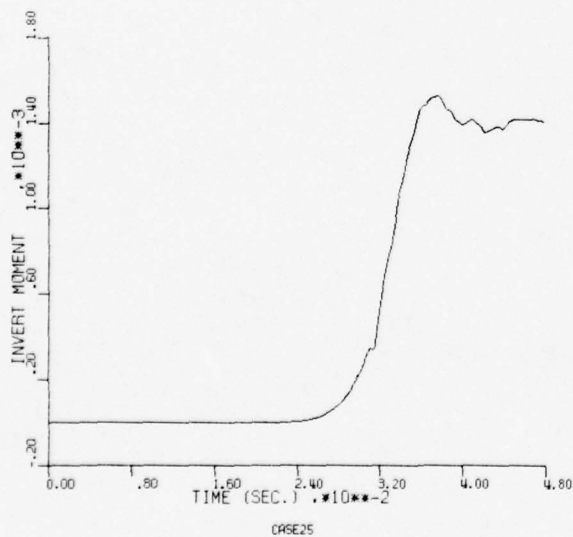
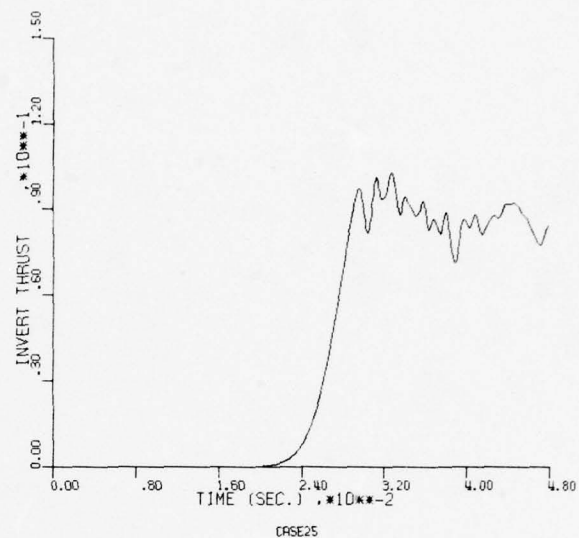
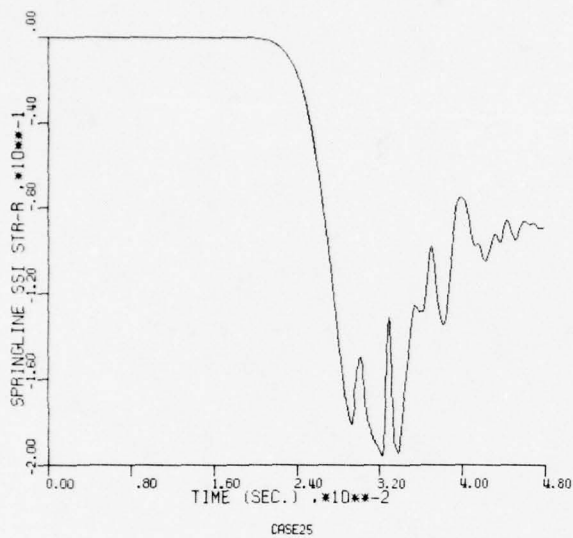














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CASE 26

MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.006172	-.245072	-.131505	-.000001
	2	0.000000	0.000000	-.009660	-.241523	-.126601	0.000000
	3	0.000000	0.000000	-.015369	-.222269	-.123591	0.000000
	4	0.000000	-.000009	-.021734	-.212937	-.114098	0.000000
	5	0.000000	-.0002017	-.024758	-.199410	-.118405	0.000000
	6	0.000000	-.0004826	-.025088	-.205174	-.117730	0.000000
	7	0.000000	-.0007561	-.023926	-.185625	-.120058	0.000000
	8	0.000000	-.0009663	-.026356	-.188229	-.128297	-.005841
	9	0.000000	-.0011635	-.026251	-.189767	-.120715	-.029062
	10	0.000000	-.0013115	-.019666	-.183003	-.151427	-.058634
	11	0.000000	-.0013091	-.016337	-.175522	-.131789	-.077543
SPR	12	0.000000	-.0014220	-.010395	-.184974	-.162378	-.089974
	13	0.000000	-.0014624	-.000868	-.207310	-.160845	-.092711
	14	0.000000	-.0013466	-.002942	-.195719	-.153581	-.100986
	15	0.000000	-.0012657	-.000000	-.218803	-.165837	-.111331
	16	0.000000	-.0011190	-.000000	-.177157	-.130805	-.102332
	17	0.000000	-.0008798	-.000000	-.194163	-.125900	-.102832
	18	0.000000	-.0005326	-.000000	-.181829	-.087625	-.086503
	19	0.000000	-.0002312	-.003974	-.193805	-.125067	-.105196
	20	0.000000	-.0000000	-.003336	-.160629	-.104620	-.090214
	21	0.000000	-.0000000	-.006684	-.177163	-.101492	-.094809
	22	0.000000	-.0000000	-.007977	-.162161	-.085707	-.078519
	23	0.000000	-.0000000	-.005267	-.173812	-.090750	-.061474
INV	24	0.000000	-.0000000	-.003114	-.152048	-.086790	-.027587

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.129404	.0009749	.001174	0.000000	0.000000	.036101
	2	.135300	.0009707	.001767	0.000000	0.000000	.060913
	3	.146278	.0009318	0.000000	0.000000	0.000000	.088249
	4	.159343	.0007954	0.000000	0.000000	0.000000	.084875
	5	.173600	.0005995	.000000	0.000000	0.000000	.099940
	6	.188114	.0003707	.000000	0.000000	0.000000	.088718
	7	.200969	.0001574	.001046	0.000000	0.000000	.099492
	8	.213610	.0000000	.003962	0.000000	0.000000	.085503
	9	.225972	.0000000	.008590	0.000000	0.000000	.104073
	10	.233029	.0000000	.013475	0.000000	0.000000	.102647
	11	.245911	.0000000	.019925	0.000000	0.000000	.092173
SPR	12	.237367	.0000001	.023406	0.000000	0.000000	.082931
	13	.233279	.0000102	.023103	0.000000	0.000000	.097466
	14	.225287	.0000596	.025421	0.000000	0.000000	.057990
	15	.209001	.0001429	.023776	0.000000	0.000000	.009643
	16	.203068	.0003005	.027231	0.000000	0.000000	.000000
	17	.186107	.0004032	.024067	0.000000	0.000000	.000000
	18	.173114	.0005092	.028579	0.000000	0.000000	.000000
	19	.151200	.0005860	.023777	0.000000	0.000000	.000000
	20	.139144	.0006901	.029869	0.000000	0.000000	.000000
	21	.122735	.0009186	.024782	0.000000	0.000000	.000000
	22	.113740	.0011962	.018421	0.000000	0.000000	.000000
	23	.106816	.0014037	.010736	0.000000	0.000000	.000000
INV	24	.105510	.0015040	.003001	0.000000	0.000000	.000000

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MIN-MAX MODAL AMPLITUDES -- CASE26

LINER THRUST PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.29549E-01	-.67462E-01	-.28237E-01	-.10915E-01	-.67078E-02
MAX	.15864E+00	.66655E-01	.25969E-02	.18365E-01	.93552E-02	.50801E-02
LINER MOMENT PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.55333E-04	-.13961E-05	0.	-.25897E-03	-.36131E-03	-.22811E-03
MAX	.27112E-15	.36754E-05	.13350E-02	.54780E-03	.21535E-03	.68971E-04
LINER SHEAR PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.80169E-03	-.18477E-01	-.12287E-01	-.63880E-02	-.22326E-02
MAX	0.	.13938E-02	0.	.61187E-02	.93955E-02	.75625E-02
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.14958E+00	-.94520E-01	-.48793E-01	-.27530E-01	-.15951E-01	-.91112E-02
MAX	0.	.33071E-01	.42572E-01	.19533E-01	.19683E-01	.18845E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.28410E-01	0.	-.37036E-01	-.21203E-01	-.12052E-01
MAX	0.	.20685E-01	.99023E-01	.49270E-01	.25909E-01	.18203E-01

CASE26

CROWN THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .031995 .014924 .008506 .001783 .000916 .000820 .000014  
MIN. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. 1.225390 1.443538 1.220680 1.056728 .990147 .992649 1.004014  
INPUT  
VARIABLE  
.26860E+02  
0.  
.12940E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .068803 .068855 .025195 .007248 .004103 .002652 .001448  
MIN. -.000055 -.000055 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. .000000 .000000 1.321122 1.192003 1.061762 1.028266 1.012463  
INPUT  
VARIABLE  
.28853E+04  
0.  
.97492E+03

CROWN SSI SIR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .015779 .006296 .012448 .006422 .006310 .006312 .004193  
MIN. .610355 .785193 .862182 .958106 1.011198 1.027332 1.022039  
MAX. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.38692E+02  
-.24507E+00  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODAL HISTORY/INPUT VARIABLE 0-4 MODES 0-5 MODES 0-6  
SRSS .008528 .009078 .002439 .001433 .001007 .000717 .000321  
MIN. 0.000000 0.000000 -.000000 -.000000 -.000000 0.000000 0.000000  
MAX. .608311 .073476 .934048 .944526 .969663 .974319 .984035  
INPUT  
VARIABLE  
.54646E+02  
0.  
.23757E+00

```

SPRINGLINE MOMENT
*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .069553    .069551    .002040    .004602    .002345    .001991    .002856
MIN     .038912    .038886    .955542    .920215    .984382    .971842    .951902
MAX     .000000    .000000    0.000000    0.000000    .000001    .000005    .000000
INPUT
VARIABLE
.40196E-04
-.14220E-02
.80030E-07

```

```

SPRINGLINE SSI STR-R
*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .014640    .014002    .007689    .008919    .008804    .008804    .010979
MIN     .808600    .808924    1.032539    1.026163    .939305    .948888    .990924
MAX     0.000000    0.000000    .000742    .002824    0.000000    0.000000    0.000000
INPUT
VARIABLE
.37697E-02
-.18497E+00
0.

```

```

INVERT THRUST
*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .016289    .034027    .009682    .001010    .001910    .000106    .000731
MIN     0.000000    -.000424    0.000000    -.000000    -.000000    -.000000    -.000000
MAX     1.503428    1.488664    1.007442    .959334    1.024930    1.024573    .992028
INPUT
VARIABLE
.25849E-02
0.
.10552E+00

```

```

INVERT MOMENT
*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .080766    .080726    .009089    .004581    .002185    .003291    .002374
MIN     -.000055    -.000056    0.000000    -.000153    -.000080    -.000006    -.000000
MAX     .000000    0.000000    .857301    1.026176    1.010779    1.062090    1.052692
INPUT
VARIABLE
.37881E-04
-.44534E-25
.15040E-02

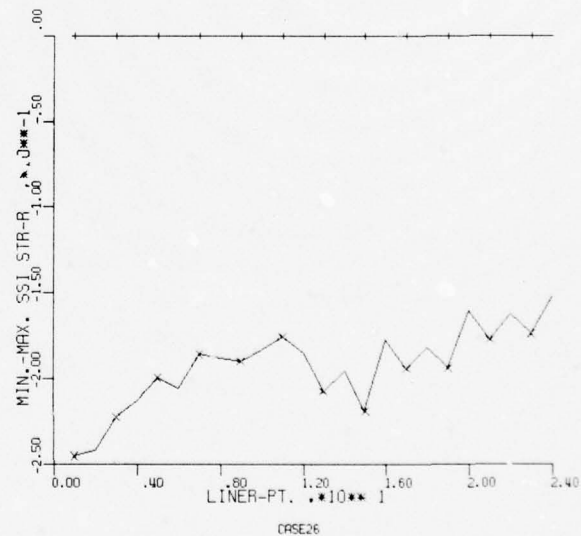
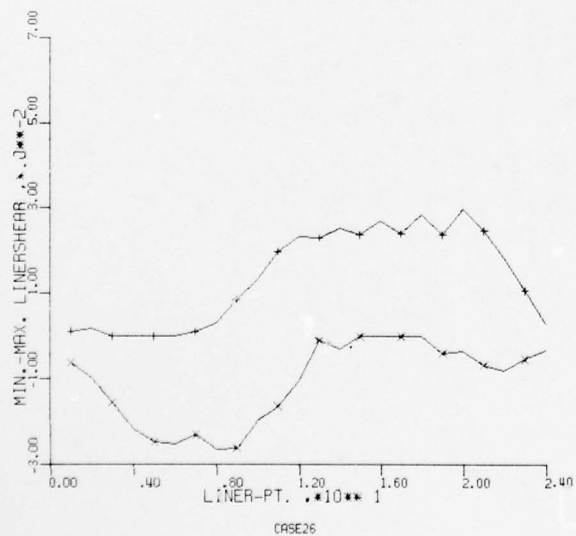
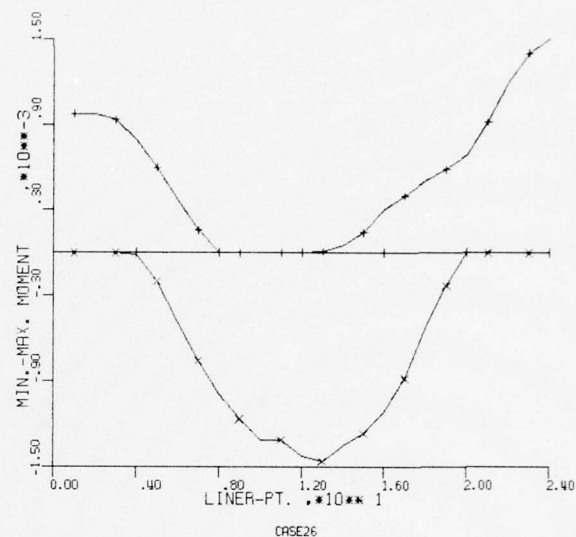
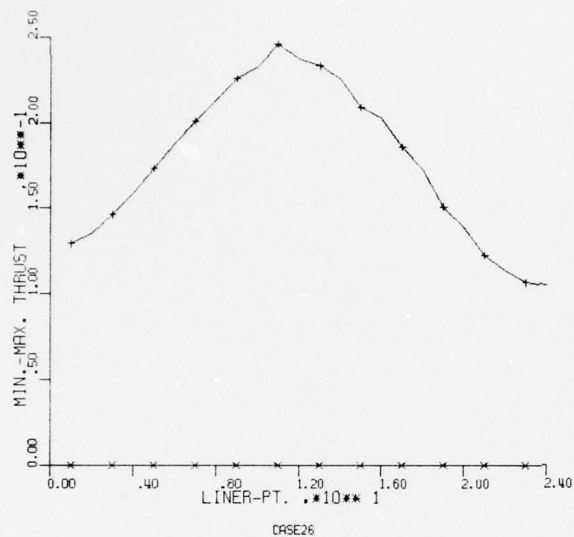
```

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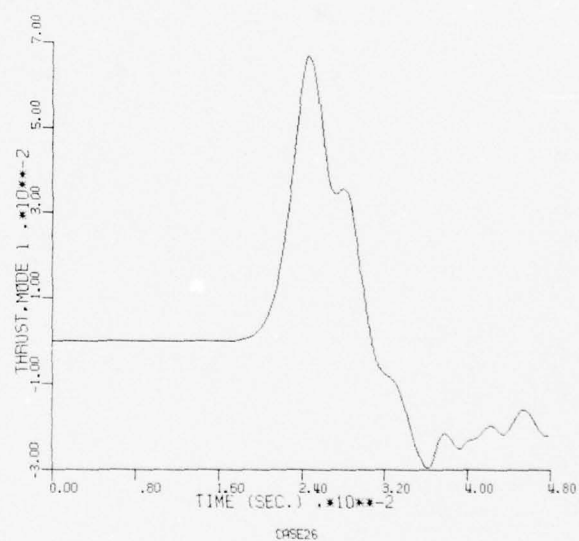
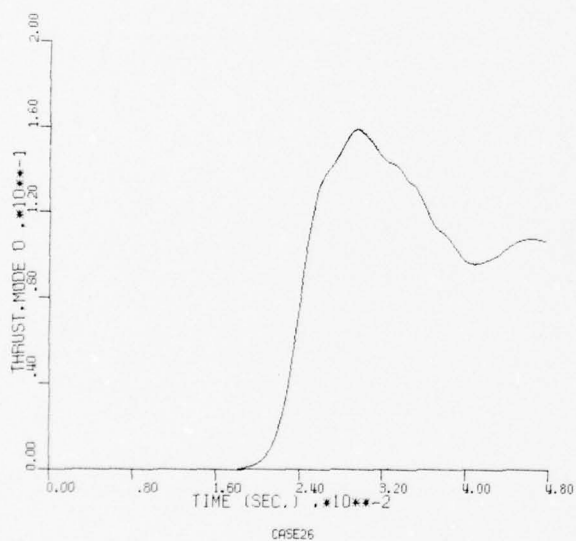
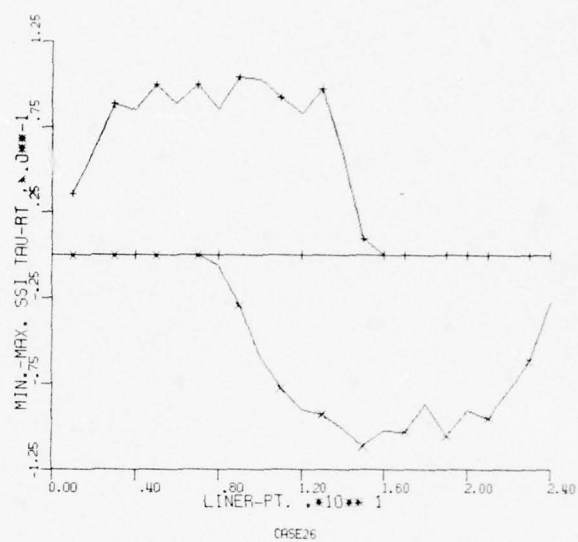
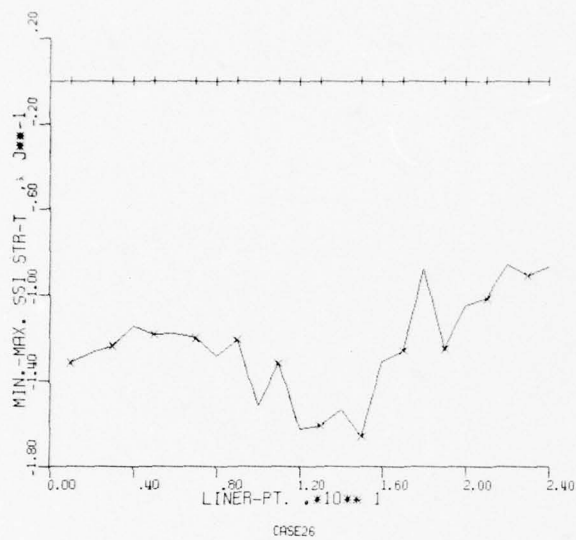
INVERT SSI STR-R
*****
MODE 0  MODES 0-1  MODES 0-2  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .012407    .001643    .005379    .012257    .012129    .012127    .009709
MIN     .983776    1.054088    .990198    1.047971    1.092318    1.177427    1.153041
MAX     0.000000    .025770    0.000000    .006607    0.000000    .000551    0.000000
INPUT
VARIABLE
.35896E-02
-.15205E+00
0.

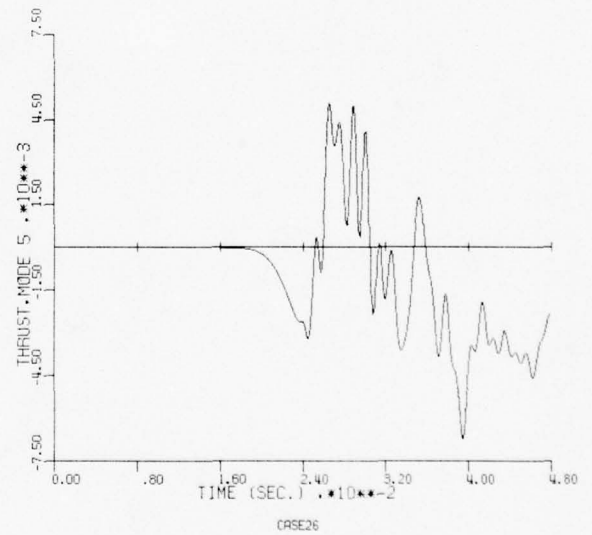
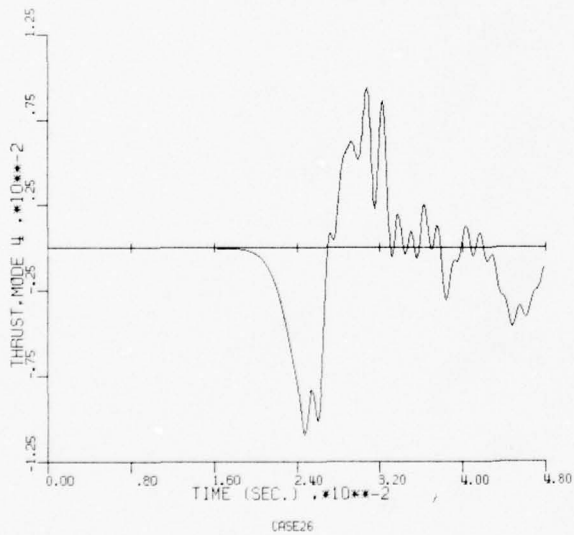
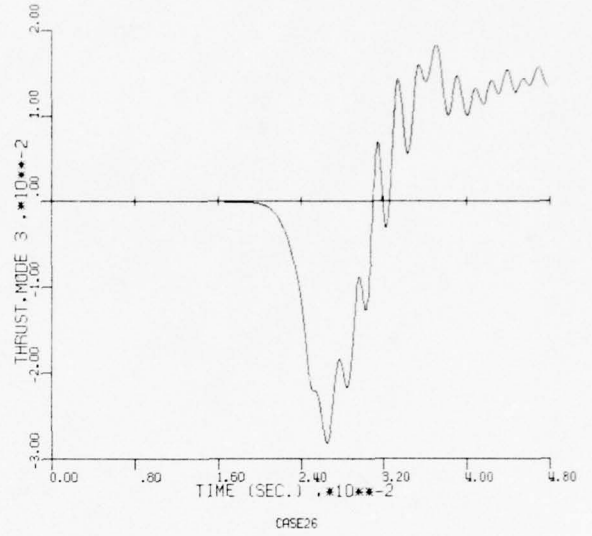
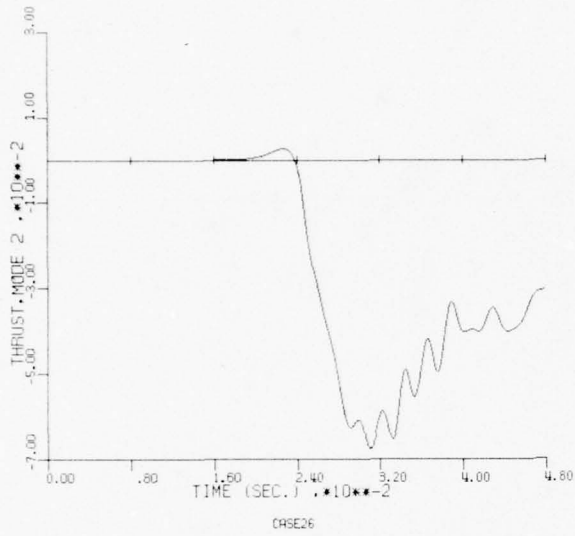
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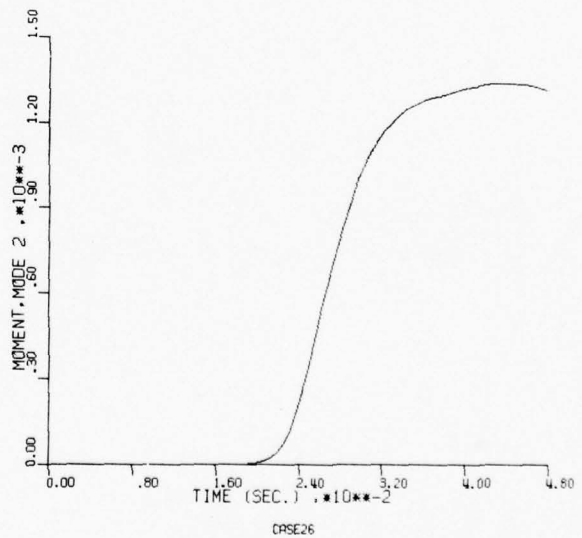
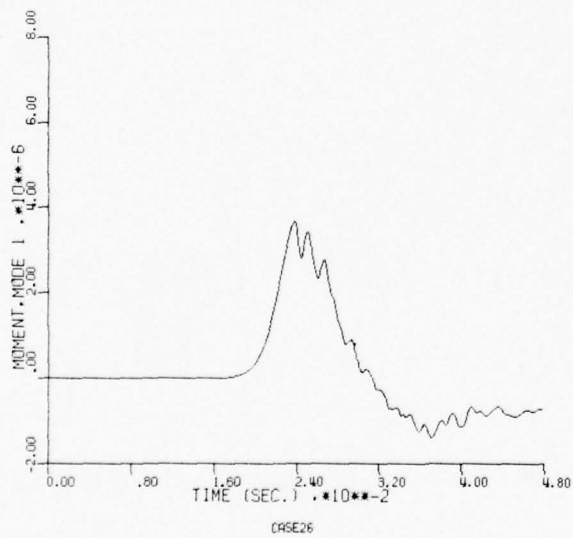
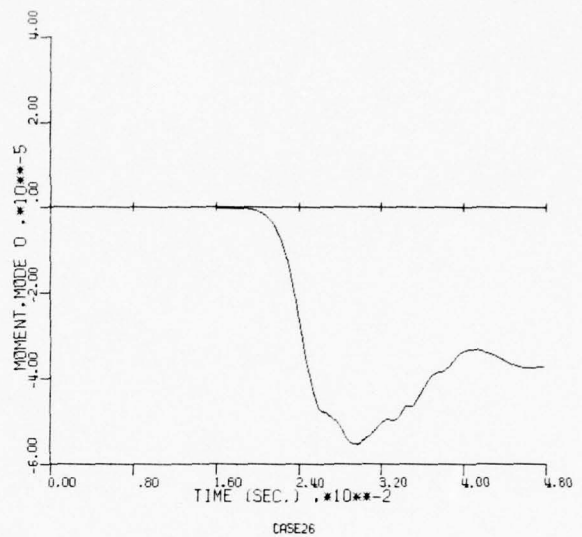
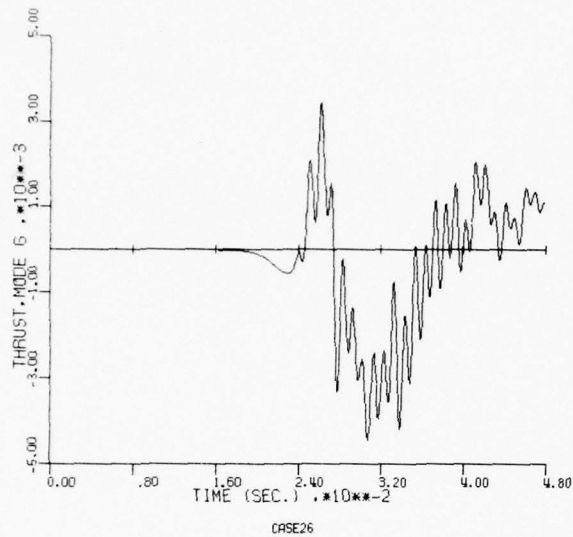


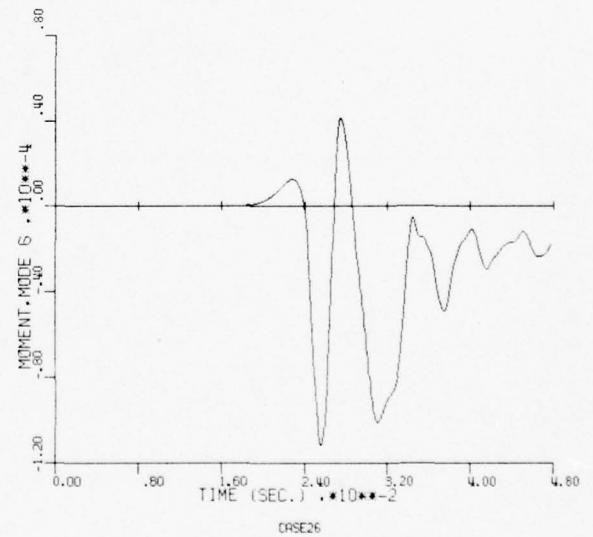
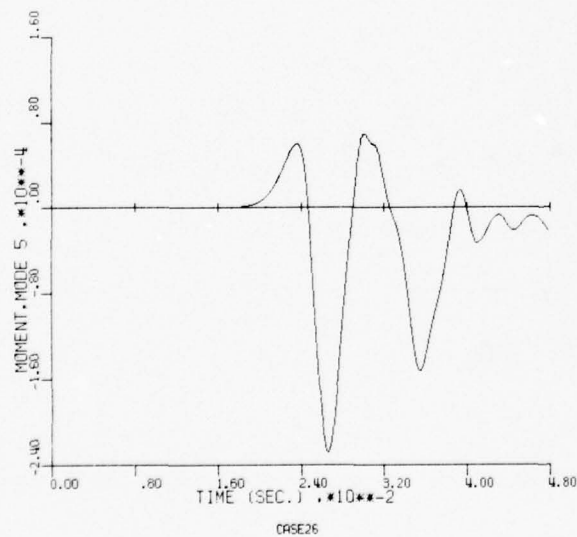
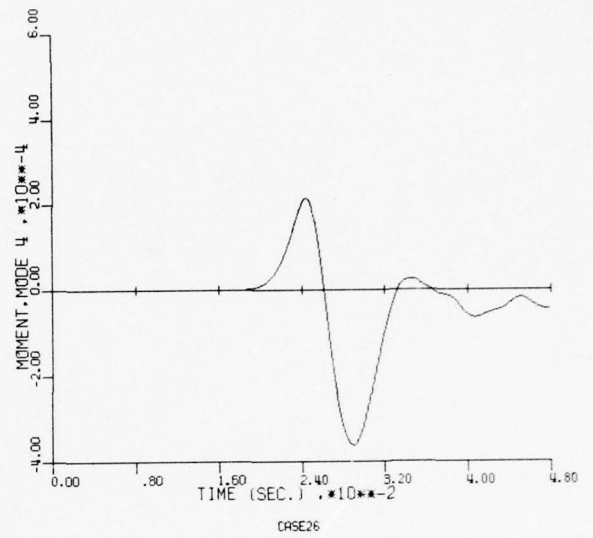
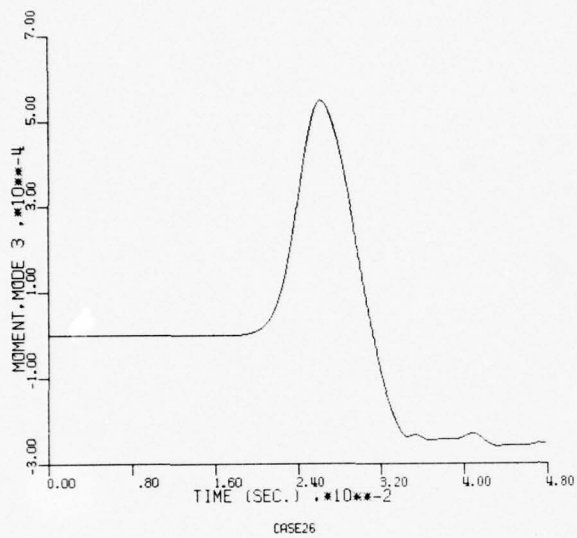


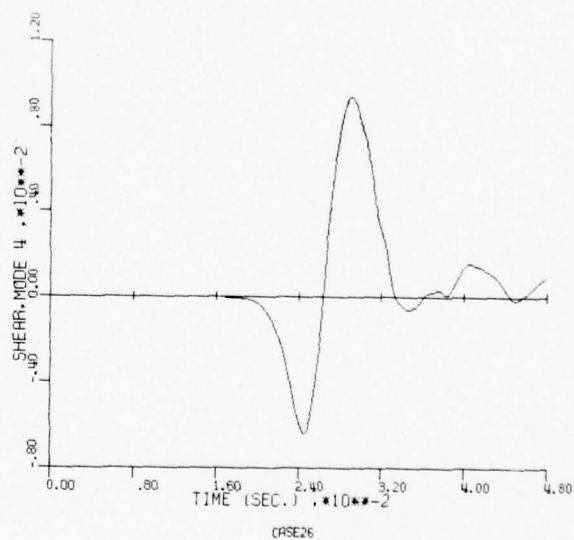
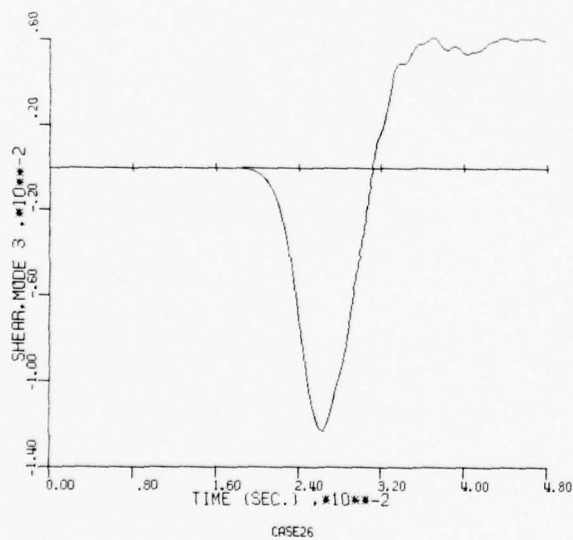
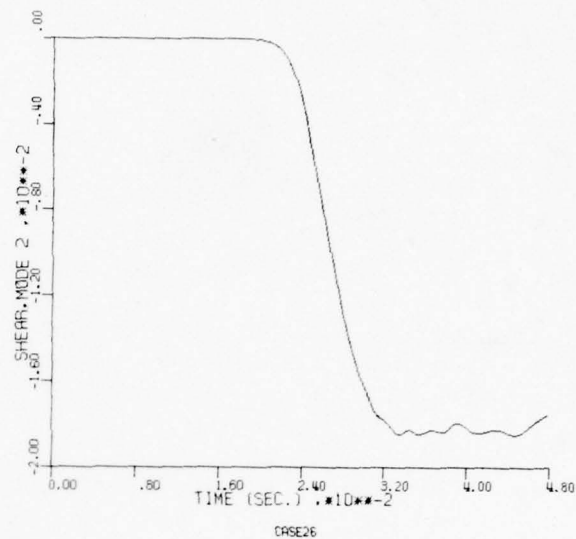
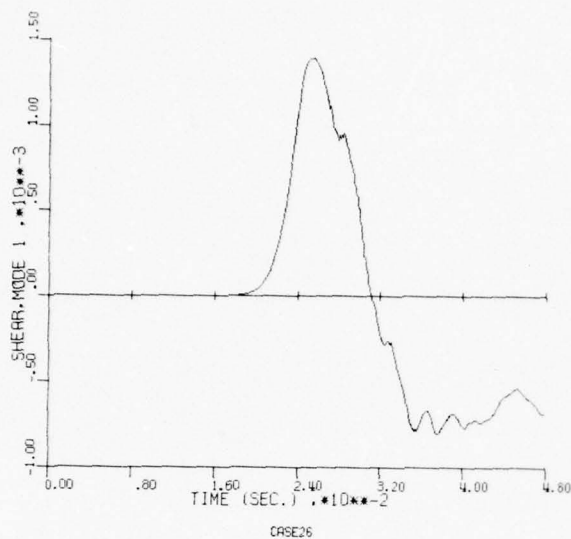




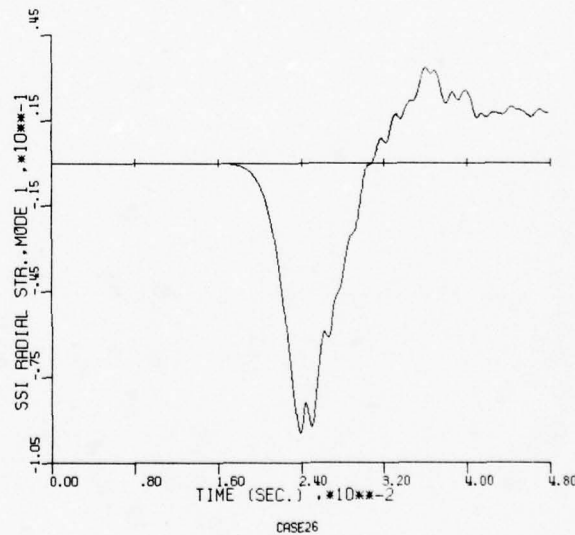
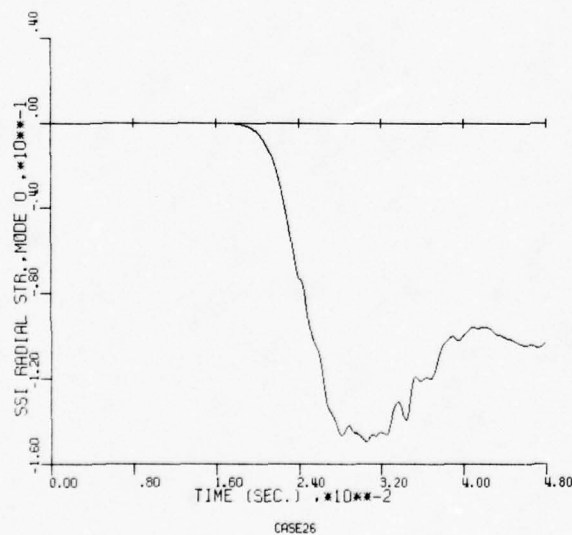
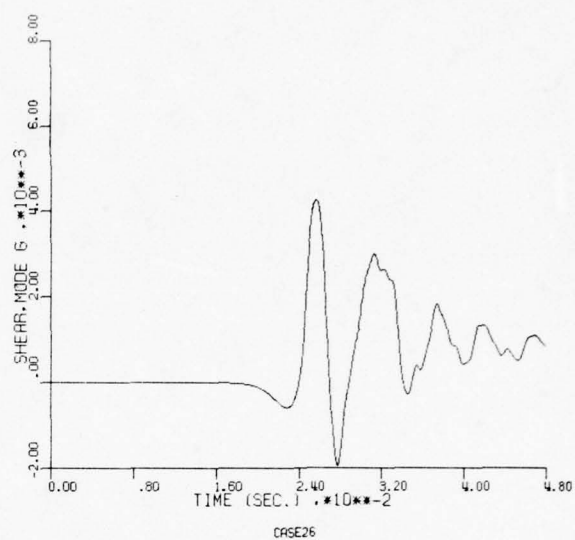
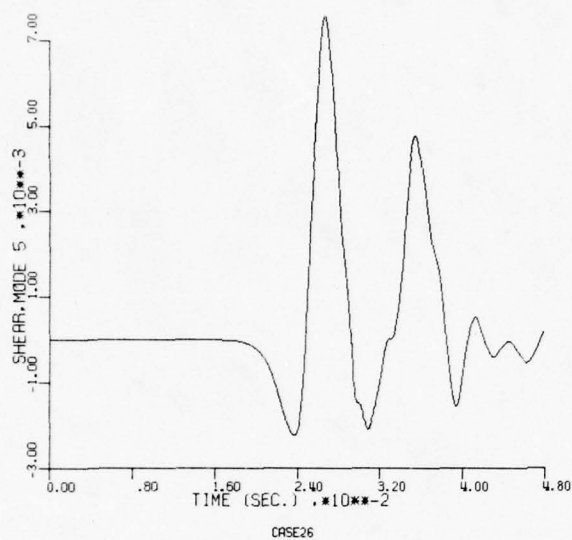


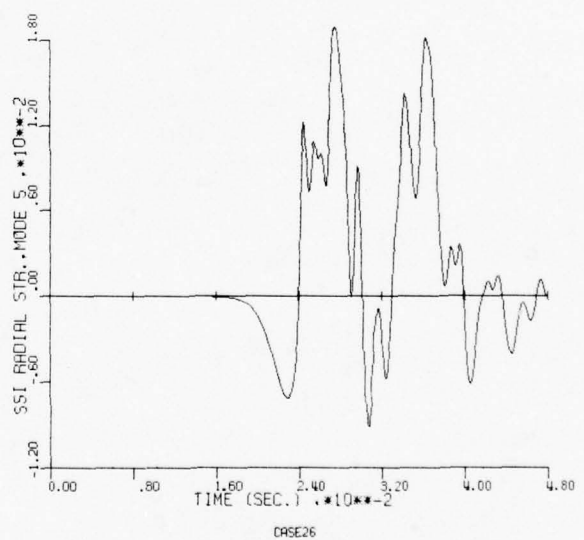
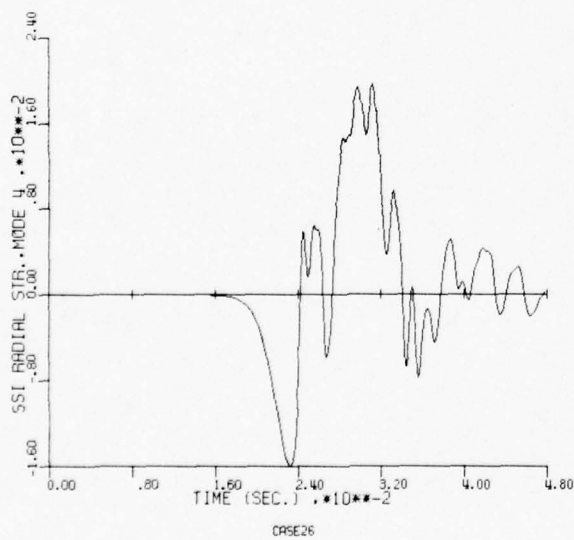
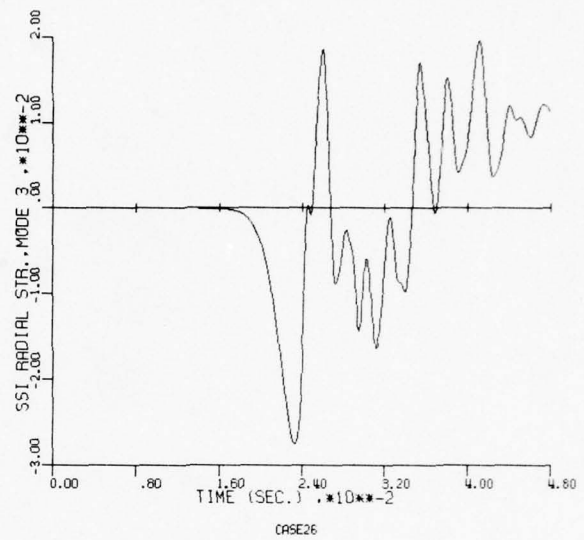
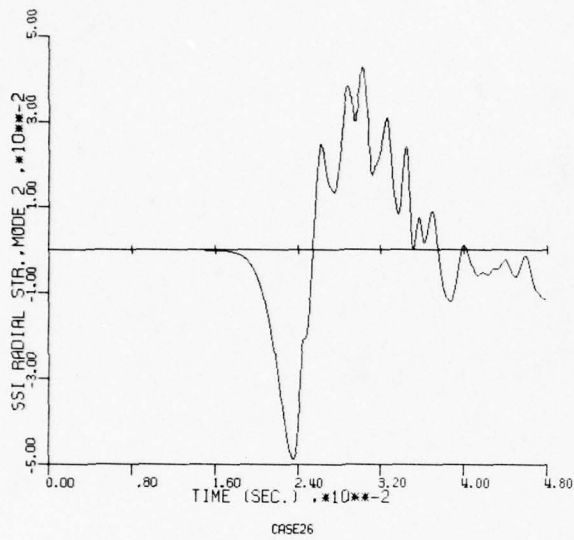


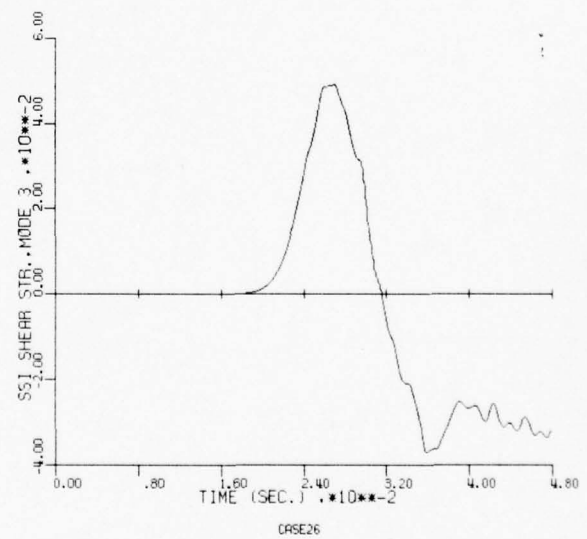
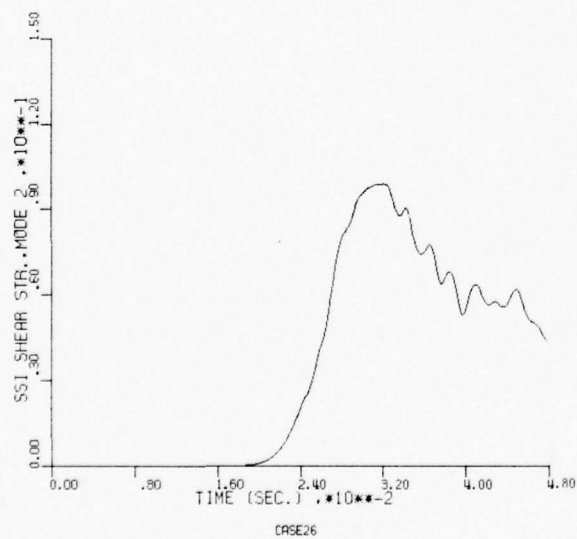
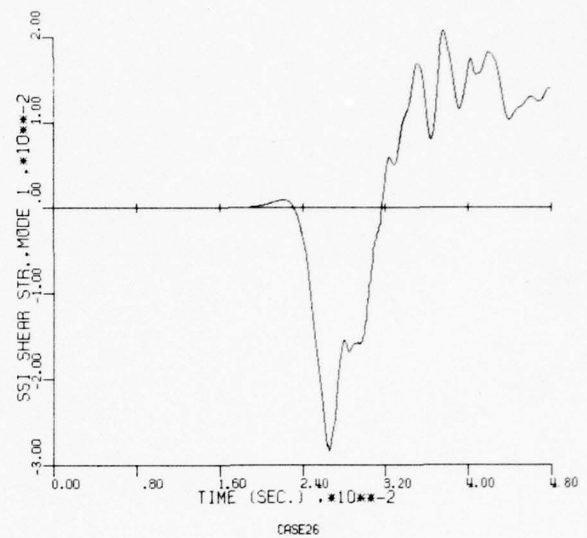
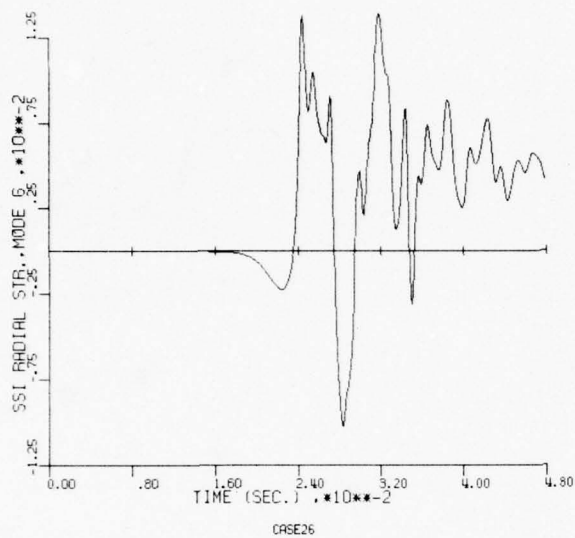


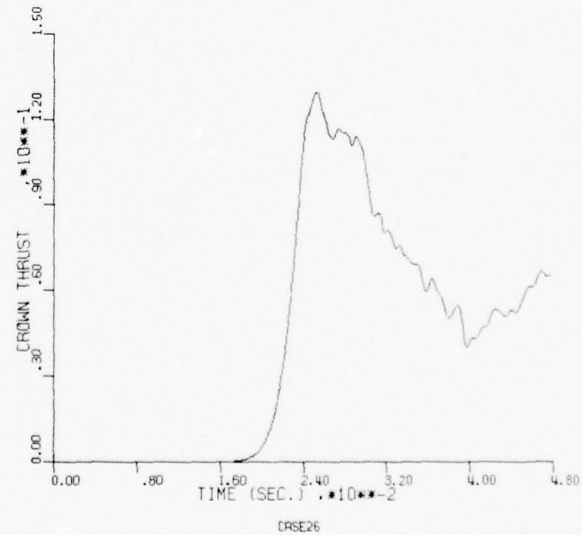
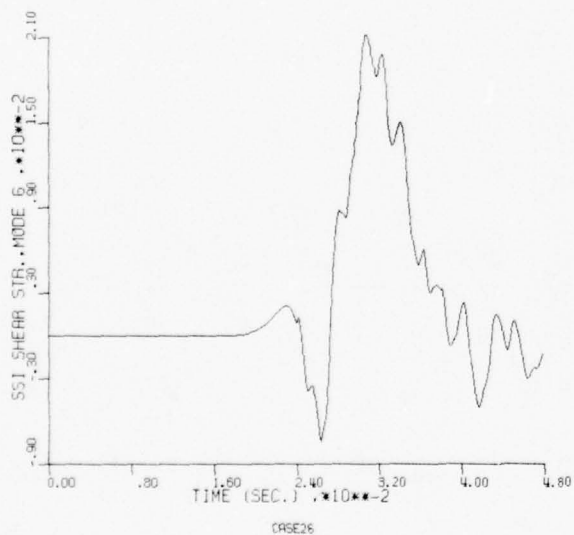
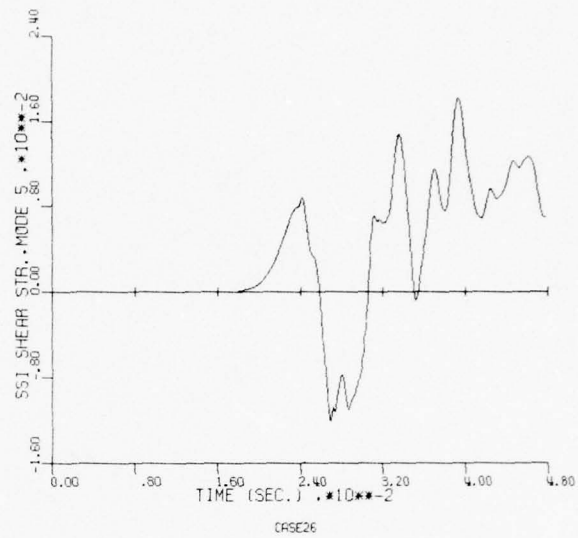
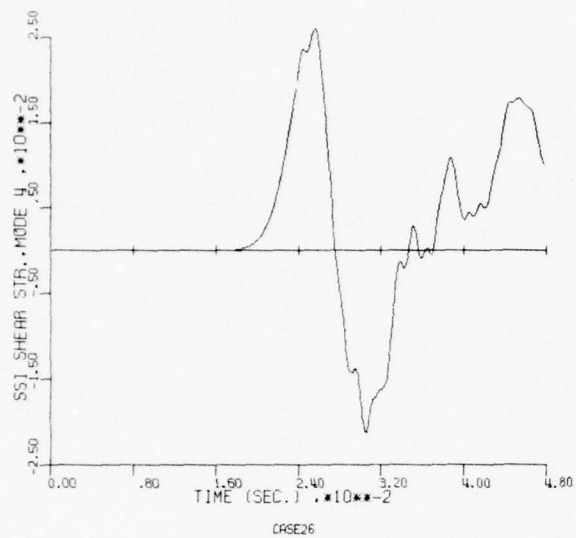


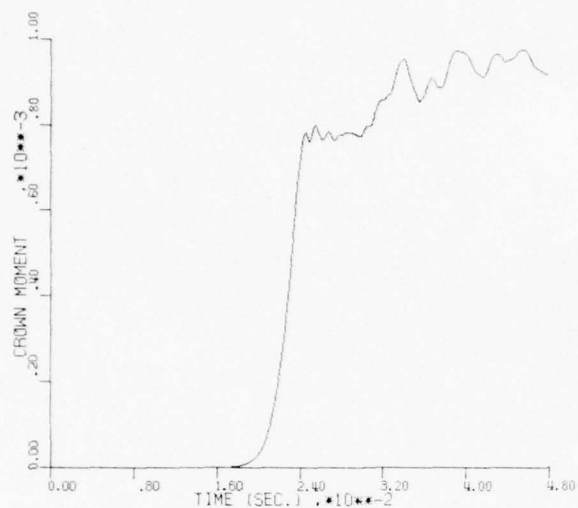




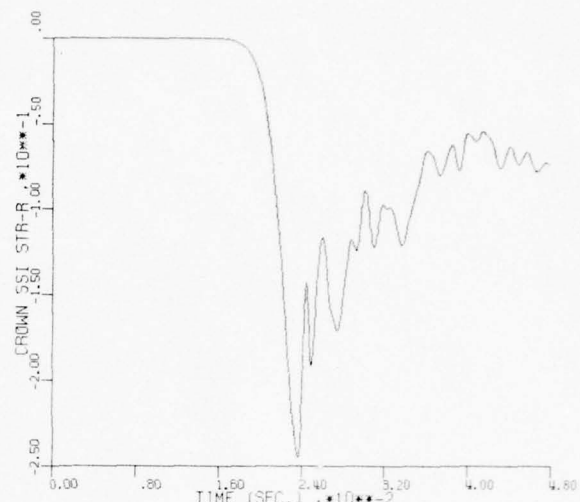




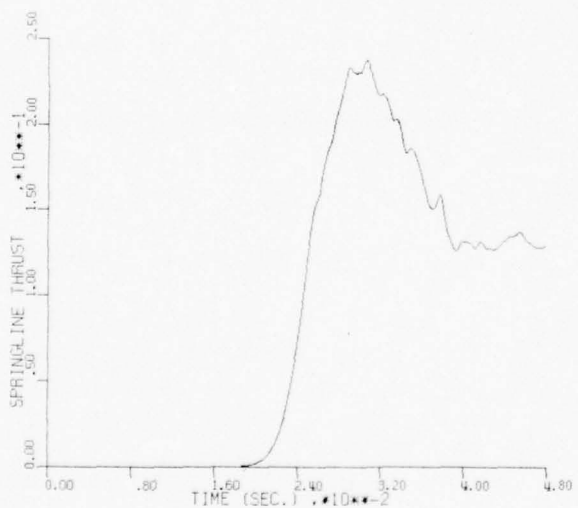




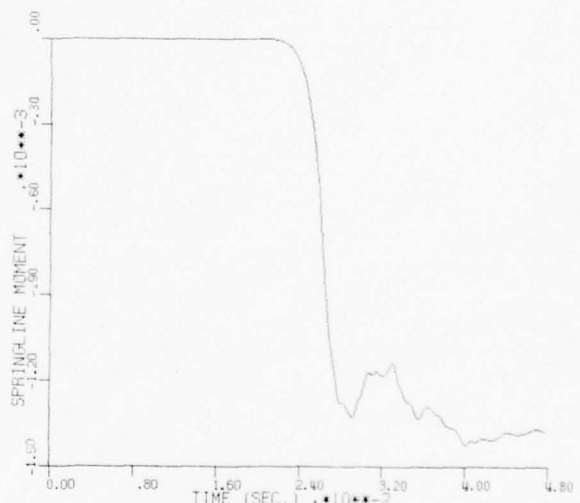
CASE26



CASE26

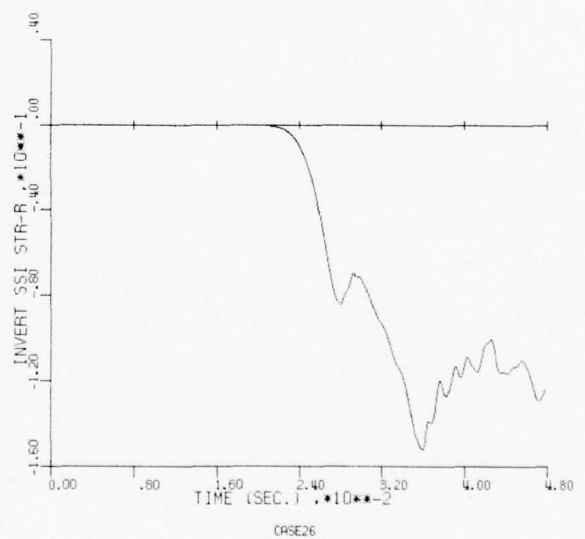
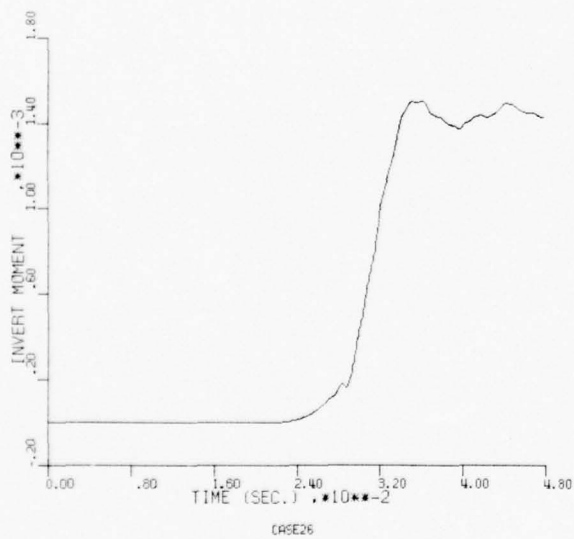
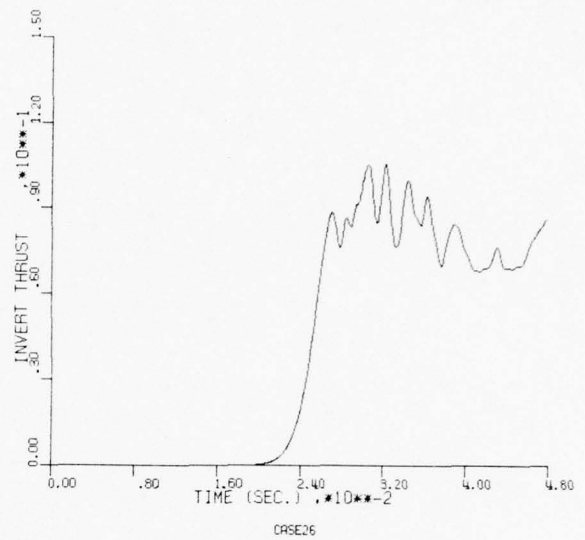
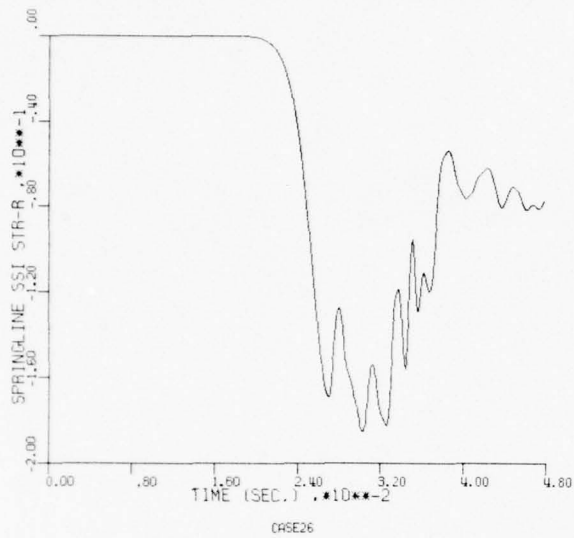


CASE26



CASE26





CASE 27

MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.009475	-.599958	-.272775	-.000000
	2	0.000000	0.000000	-.023465	-.599740	-.274072	0.000000
	3	0.000000	0.000000	-.006296	-.579274	-.303048	-.060698
	4	0.000000	-.0000018	-.054863	-.586189	-.296679	-.055153
	5	0.000000	-.0002058	-.064495	-.553360	-.321484	-.041188
	6	0.000000	-.0008465	-.066558	-.594845	-.333044	-.049221
	7	0.000000	-.0016669	-.066694	-.546027	-.340594	-.065204
	8	0.000000	-.0024356	-.065852	-.585746	-.357059	-.023490
	9	0.000000	-.0030233	-.065515	-.560585	-.365774	-.032899
	10	0.000000	-.0036017	-.056095	-.590335	-.396147	-.118019
SPR	11	0.000000	-.0039174	-.042587	-.548836	-.385567	-.183948
	12	0.000000	-.0041533	-.033900	-.631785	-.447480	-.233235
	13	0.000000	-.0041275	-.030639	-.619864	-.446542	-.272084
	14	0.000000	-.0042553	-.017358	-.619983	-.433545	-.292145
	15	0.000000	-.0041193	-.000000	-.632415	-.435102	-.314373
	16	0.000000	-.0036738	-.000000	-.542523	-.432515	-.325345
	17	0.000000	-.0031546	-.000000	-.592519	-.416162	-.359270
	18	0.000000	-.0020175	-.000000	-.512777	-.360459	-.311411
	19	0.000000	-.0006026	-.000000	-.570824	-.374565	-.341346
	20	0.000000	-.0000000	-.000000	-.505241	-.325529	-.304235
	21	0.000000	-.0000000	-.002547	-.596048	-.338501	-.307678
	22	0.000000	-.0000000	-.003288	-.572321	-.286444	-.255805
	23	0.000000	-.0000000	-.007921	-.630427	-.270793	-.196926
	24	0.000000	-.0000000	-.003977	-.551569	-.267728	-.093142

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.385786	.0035191	.002355	0.000000	0.000000	.092750
	2	.399251	.0034081	.000275	0.000000	0.000000	.219320
	3	.432550	.0030302	0.000000	0.000000	0.000000	.242113
	4	.469578	.0023899	0.000000	0.000000	0.000000	.239340
	5	.511832	.0017798	.000000	0.000000	0.000000	.277757
	6	.561601	.0008952	.000000	0.000000	0.000000	.273392
	7	.606468	.0001895	.000290	0.000000	0.000000	.302182
	8	.650359	.0000000	.001472	0.000000	0.000000	.286527
	9	.687855	.0000000	.008913	0.000000	0.000000	.317451
	10	.713786	.0000000	.014921	0.000000	0.000000	.292510
SPR	11	.733359	.0000000	.029924	0.000000	0.000000	.323481
	12	.745298	.0000000	.040765	0.000000	0.000000	.320687
	13	.742903	.0000020	.053478	0.000000	0.000000	.304048
	14	.750606	.00000213	.059368	0.000000	0.000000	.141030
	15	.731820	.0000945	.056817	0.000000	0.000000	.156127
	16	.696896	.0002715	.068635	0.000000	0.000000	.044747
	17	.642228	.0005255	.063273	0.000000	0.000000	.049791
	18	.601911	.0009810	.086016	0.000000	0.000000	.051822
	19	.537863	.0013490	.087344	0.000000	0.000000	.079196
	20	.492884	.0017457	.095846	0.000000	0.000000	.056059
	21	.439116	.0028405	.080451	0.000000	0.000000	.025428
	22	.410884	.0040180	.063960	0.000000	0.000000	.001360
	23	.376055	.0048251	.037253	0.000000	0.000000	.006077
	24	.370020	.0051851	.012195	0.000000	0.000000	.000000

MIN-MAX MODAL AMPLITUDES -- CASE27

LINER THRUST PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.10748E+00	-.20997E+00	-.69718E-01	-.18773E-01	-.16497E-01
MAX	.51374E+00	.16691E+00	.22194E-01	.56039E-01	.20974E-01	.98602E-02
LINER MOMENT PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.17910E-03	-.44211E-05	0.	-.10811E-02	-.70989E-03	-.31453E-03
MAX	.22025E-15	.91429E-05	.42965E-02	.13836E-02	.39664E-03	.26276E-03
LINER SHEAR PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.34919E-02	-.63619E-01	-.30982E-01	-.10246E-01	-.80030E-02
MAX	0.	.41142E-02	0.	.20709E-01	.18993E-01	.10819E-01
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	-.50423E+00	-.23145E+00	-.10664E+00	-.41172E-01	-.41024E-01	-.34759E-01
MAX	0.	.10225E+00	.82009E-01	.55407E-01	.36798E-01	.30537E-01
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	0.	-.81552E-01	-.39969E-01	-.12851E+00	-.46723E-01	-.26768E-01
MAX	0.	.82485E-01	.32007E+00	.13824E+00	.50639E-01	.61530E-01

CASE 27

CROWN THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .005923 .003743 .000126 .001459 .000762 .000660 .000046  
MIN. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. 1.331667 1.522426 1.181245 1.029996 .990129 1.014332 1.010210  
INPUT  
VARIABLE  
.75498E-02  
0.  
.365/9E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .049558 .049592 .008273 .007929 .004134 .000384 .000174  
MIN. -.000179 -.000180 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. .000000 .000000 1.163709 .978571 1.043432 1.010399 1.005723  
INPUT  
VARIABLE  
.91025E-04  
0.  
.35191E-02

CROWN SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .006610 .013251 .002015 .008116 .005115 .000926 .001883  
MIN. .840442 .957724 .942696 .998775 1.029214 1.023371 1.011628  
MAX. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.10928E-01  
-.59996E+00  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .002557 .002266 .000694 .000545 .000215 .000198 .000489  
MIN. 0.000000 0.000000 -.000000 -.000000 -.000000 0.000000 0.000000  
MAX. .689307 .687150 .965686 .962094 .987190 .986634 .996549  
INPUT  
VARIABLE  
.15931E-01  
0.  
.74530E+00



SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .042361 .042359 .000913 .004169 .000937 .000147 .000328  
MIN. .043123 .043140 1.064554 1.026683 .981489 .991847 .962863  
MAX. .000000 .000000 0.000000 0.000000 .000000 .000001 .000000  
INPUT  
VARIABLE  
.10690E-03  
-.41533E-02  
.21729E-07

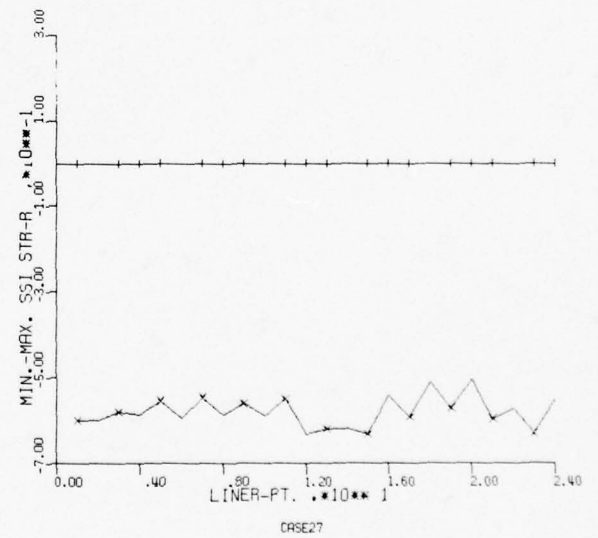
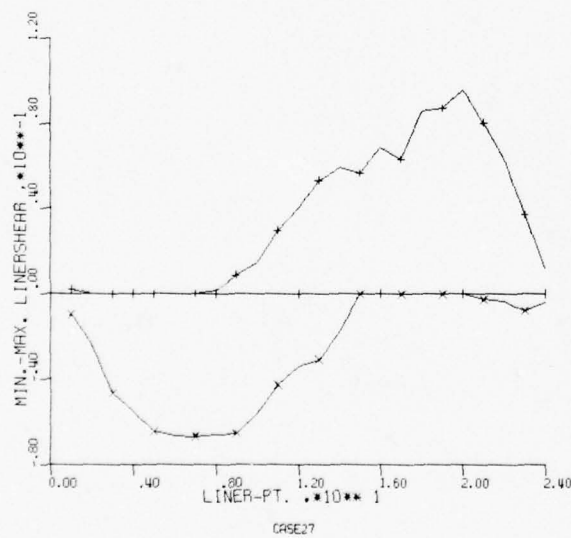
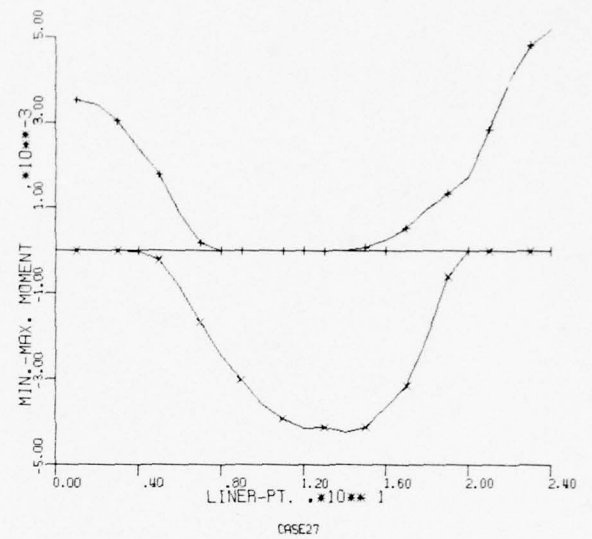
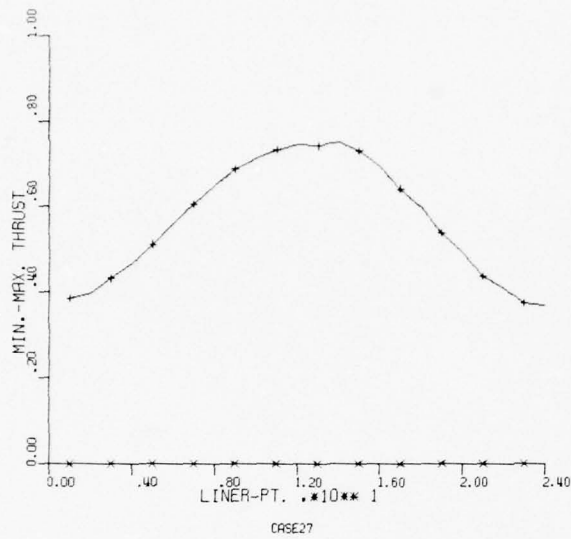
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .000599 .000209 .009346 .008760 .006075 .004802 .007315  
MIN. .798103 .798918 .902562 .933031 .930879 .923498 .959483  
MAX. 0.000000 0.000000 .000141 .000647 0.000000 0.000000 0.000000  
INPUT  
VARIABLE  
.12212E-01  
-.63179E+00  
0.

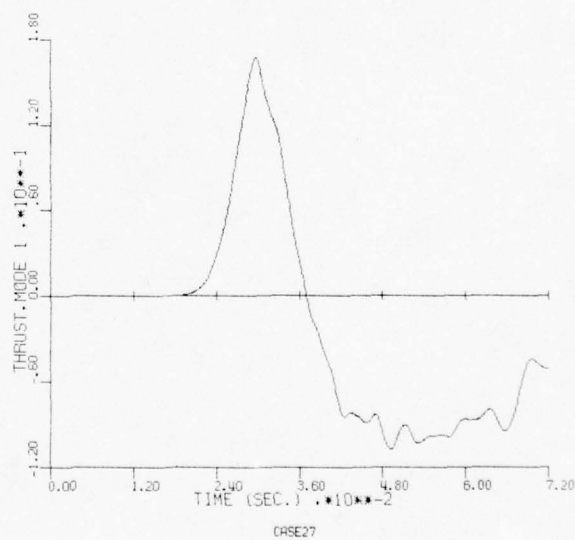
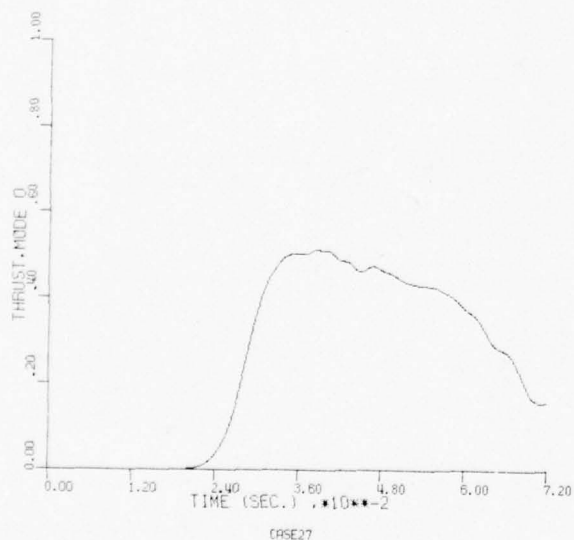
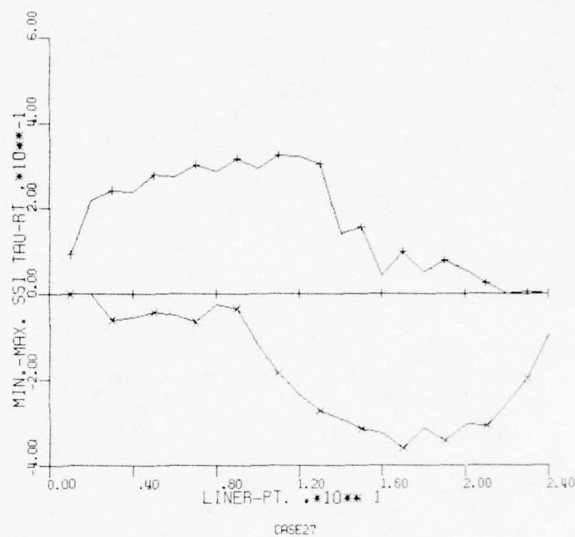
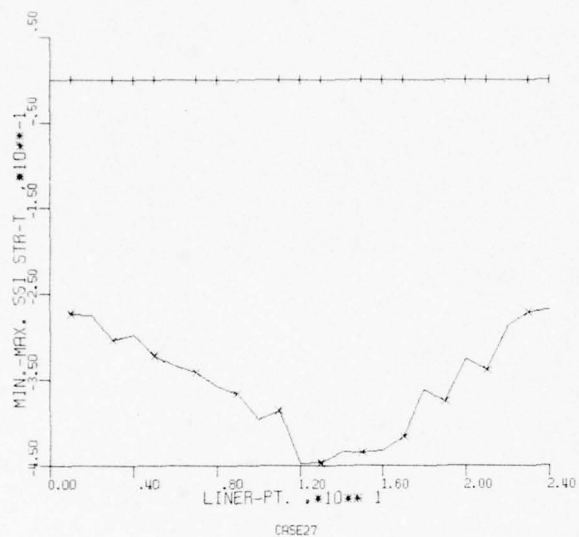
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .008372 .000583 .002176 .000858 .000278 .000363 .000148  
MIN. 0.000000 -.000081 0.000000 -.000000 -.000000 -.000000 -.000000  
MAX. 1.388408 1.545067 1.062802 .961692 .985988 1.019560 1.003806  
INPUT  
VARIABLE  
.90780E-02  
0.  
.37002E+00

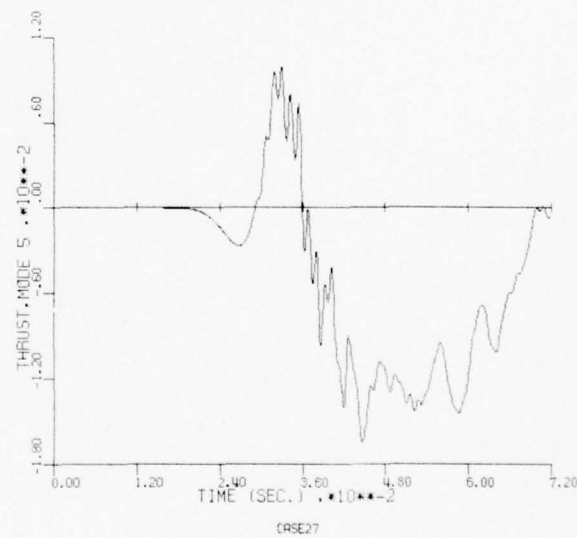
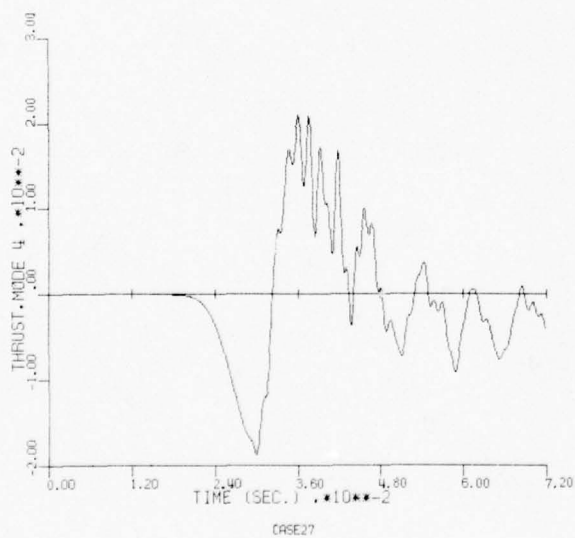
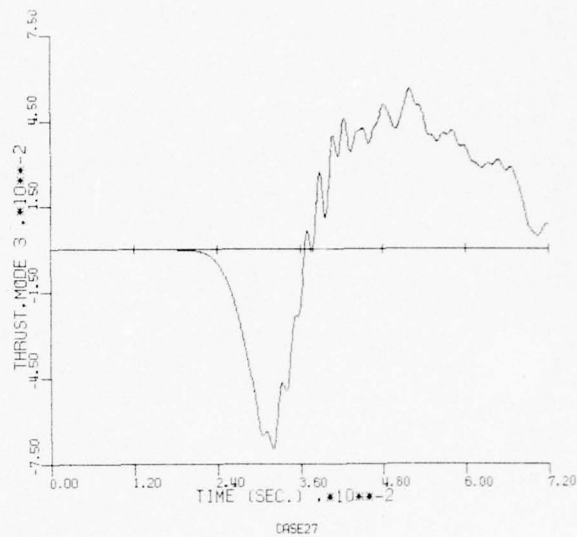
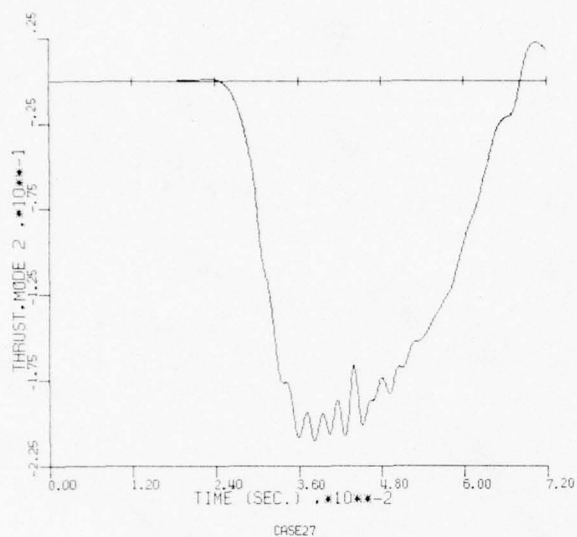
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .051992 .051967 .010098 .001626 .004372 .001659 .002062  
MIN. -.000179 -.000176 0.000000 -.000175 0.000000 .000002 0.000000  
MAX. .000000 0.000000 .791227 .946430 1.016944 1.045391 1.033821  
INPUT  
VARIABLE  
.12580E-03  
-.41649E-25  
.51851E-02

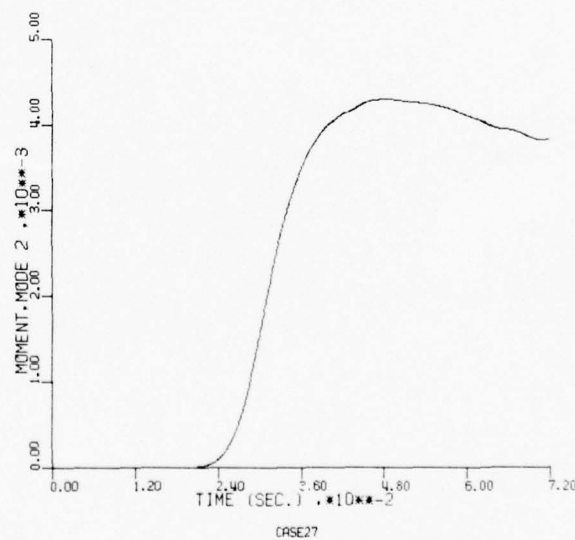
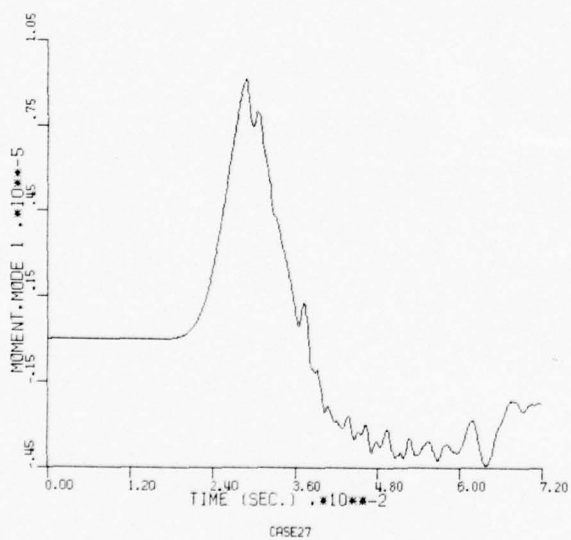
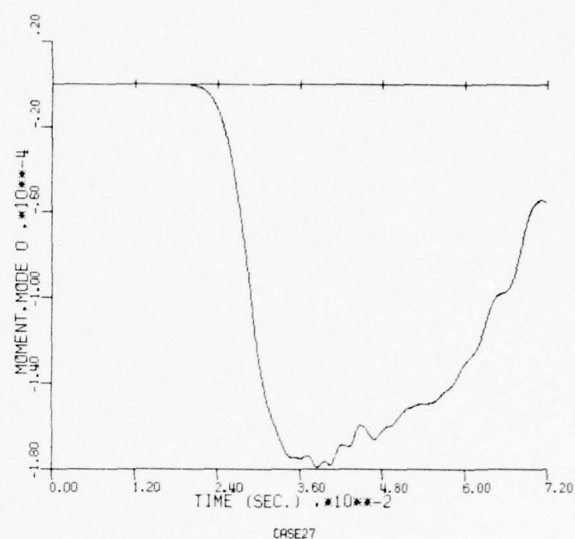
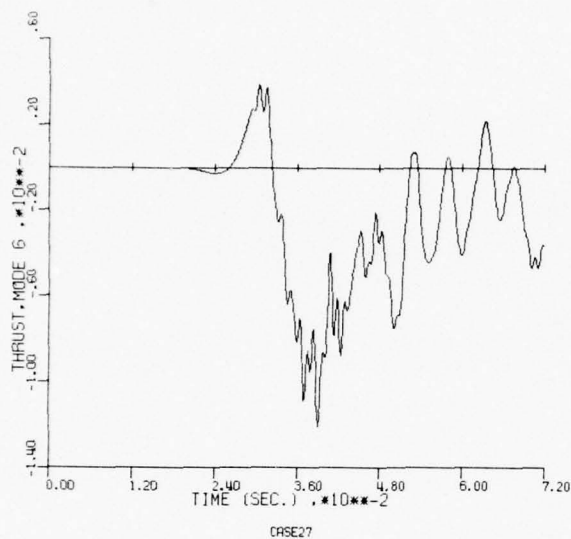
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODES 0-2 MODES 0-3 MODES 0-4 MODES 0-5 MODES 0-6  
SRSS .013478 .007562 .002448 .007883 .010556 .006824 .009326  
MIN. .914173 1.051051 .979937 1.027552 1.080557 1.094659 1.105256  
MAX. 0.000000 .021810 0.000000 .003285 0.000000 .000113 0.000000  
INPUT  
VARIABLE  
.12267E-01  
-.55157E+00  
0.

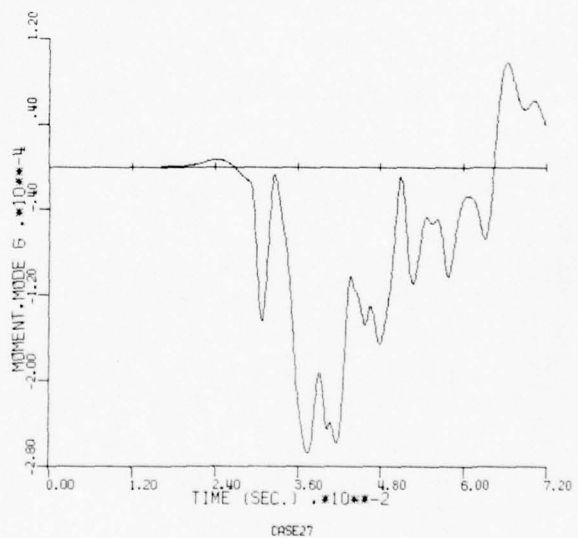
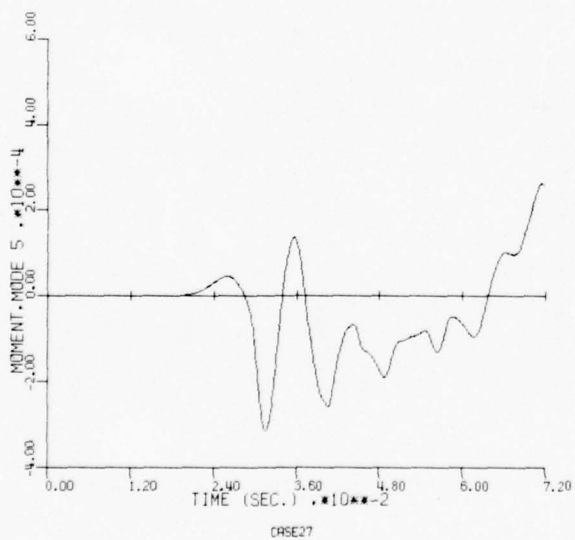
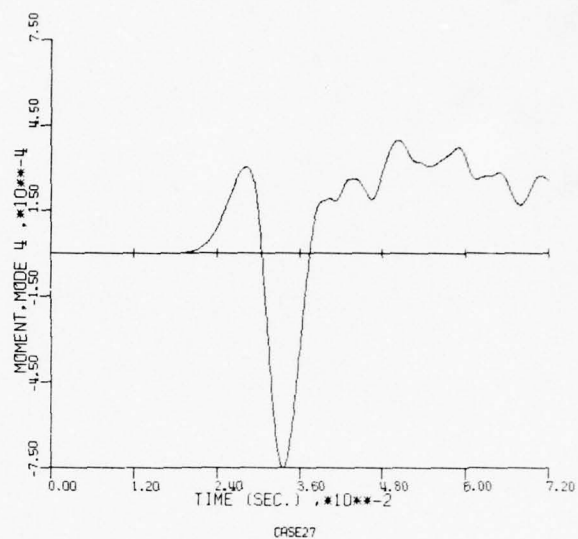
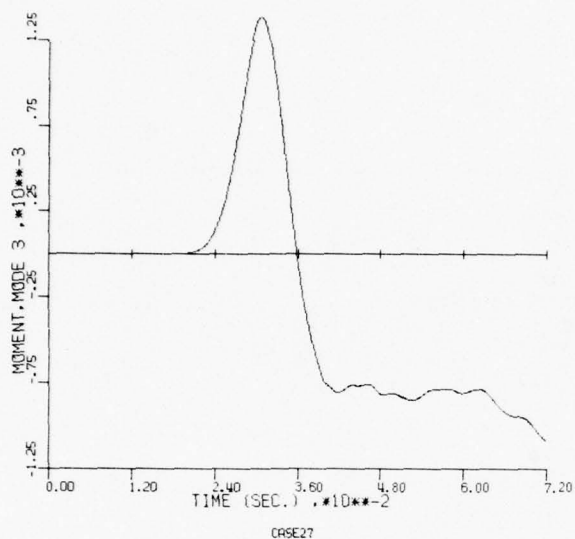




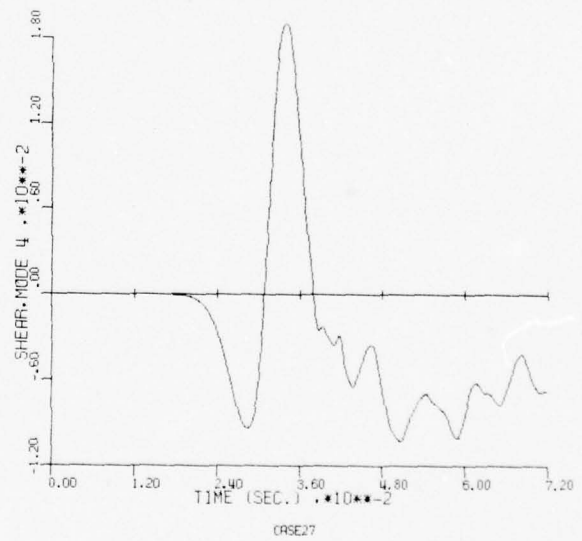
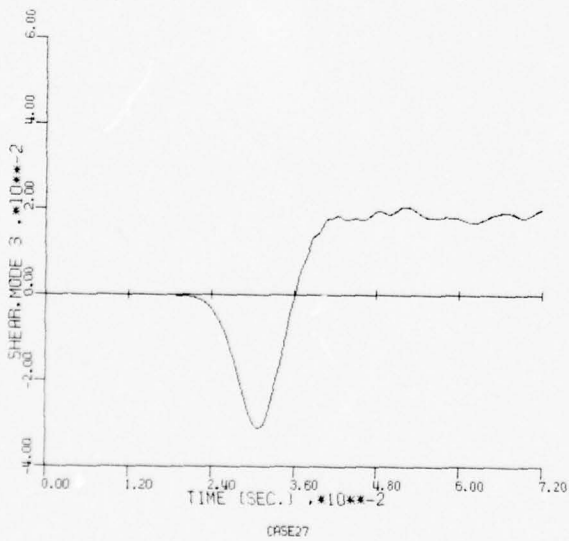
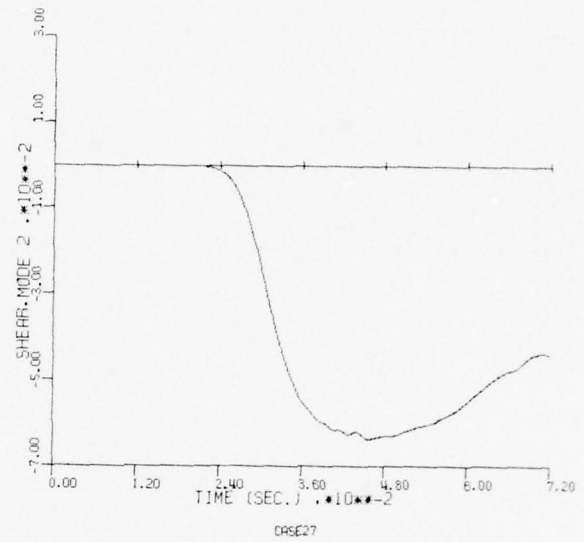
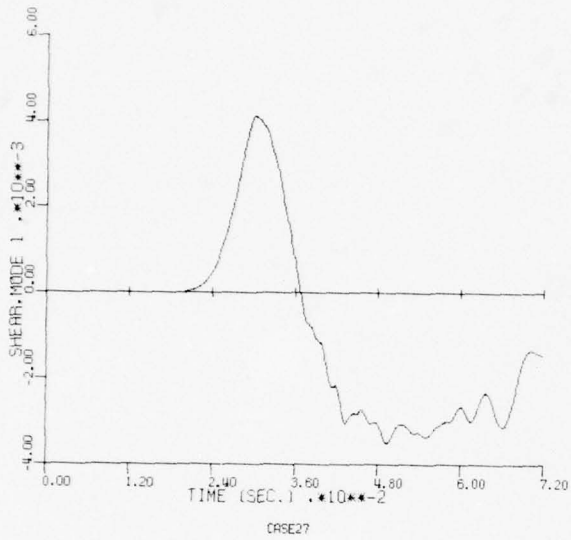


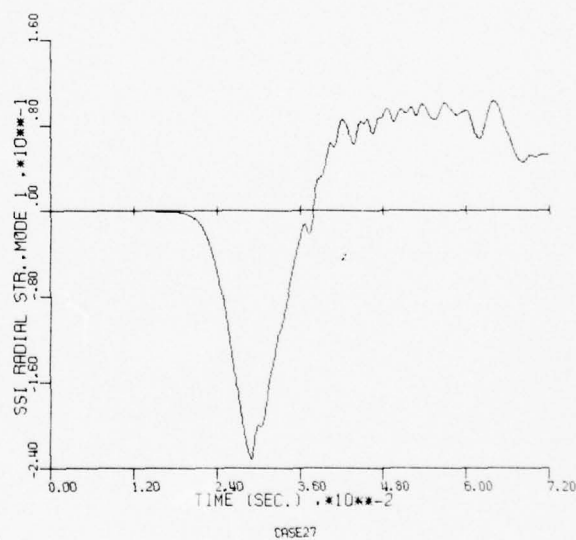
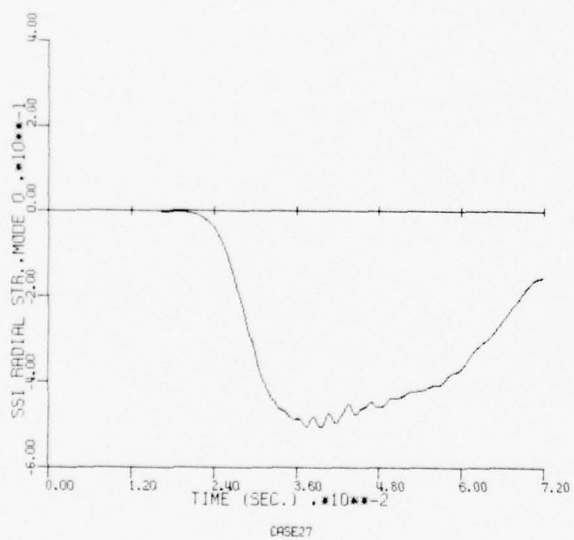
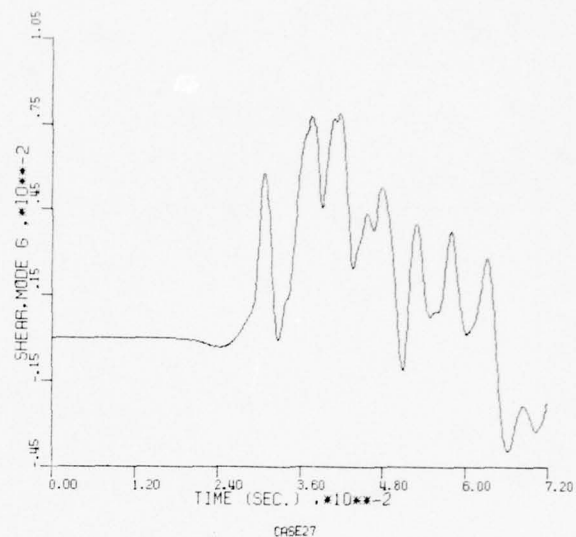
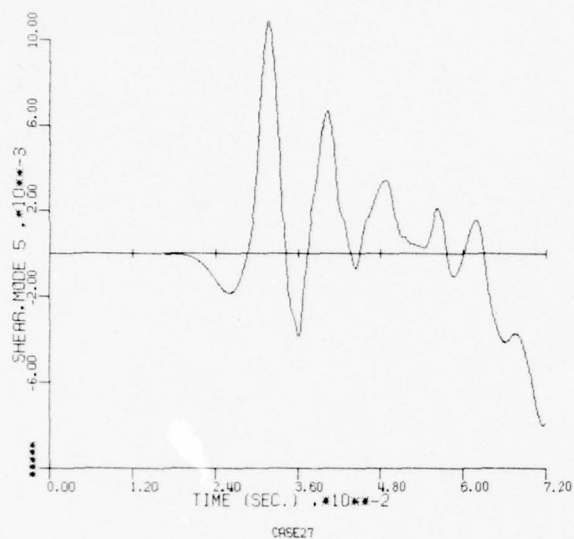


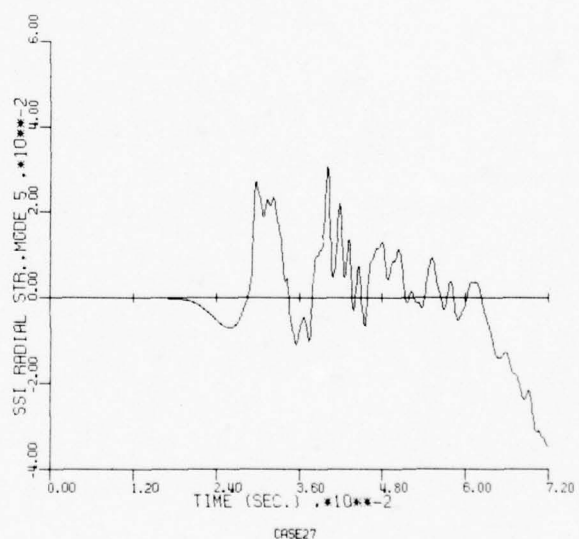
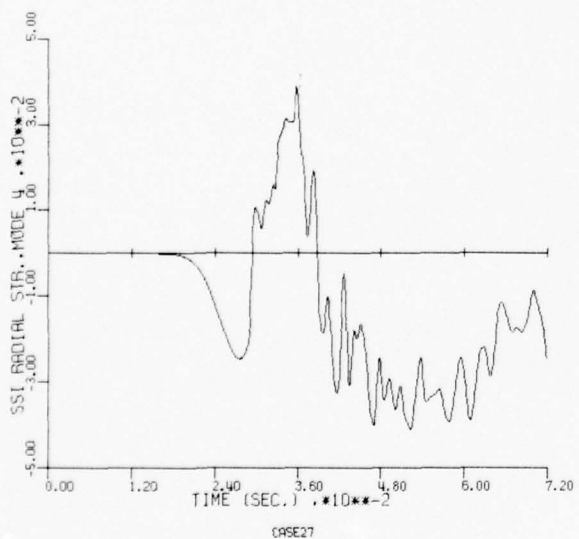
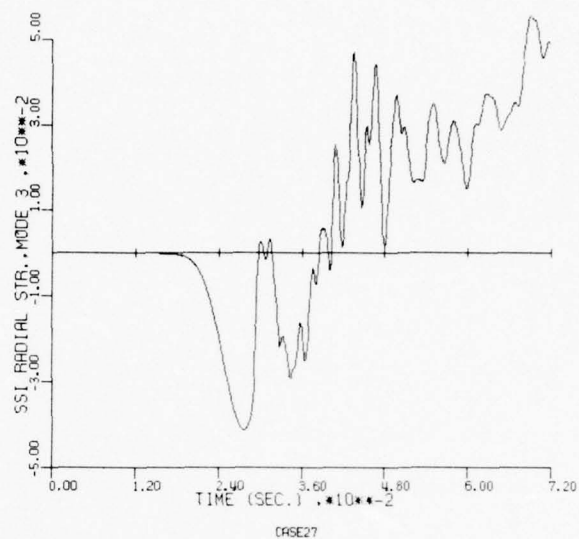
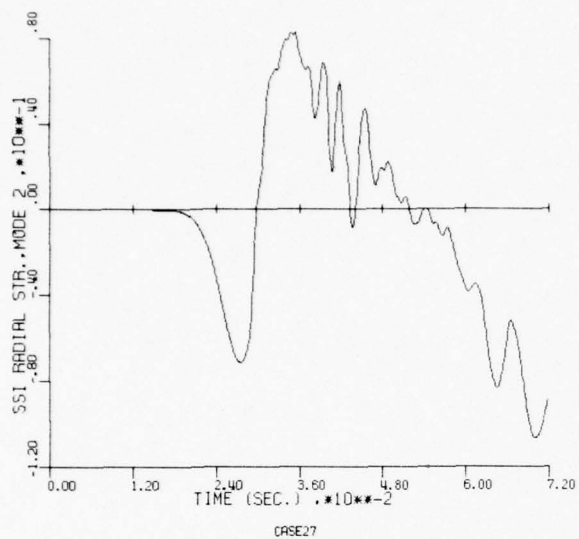


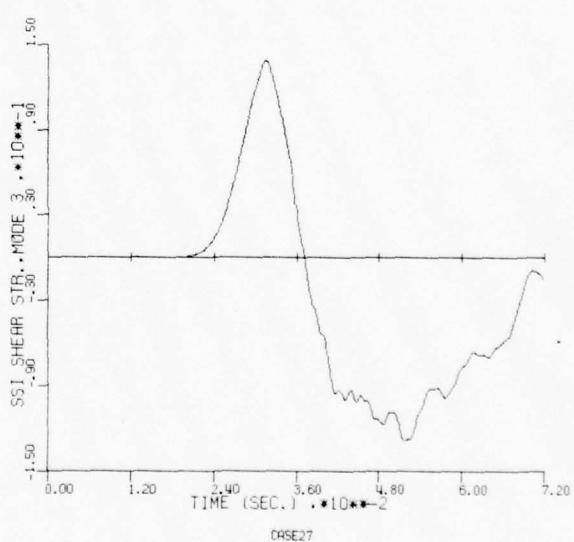
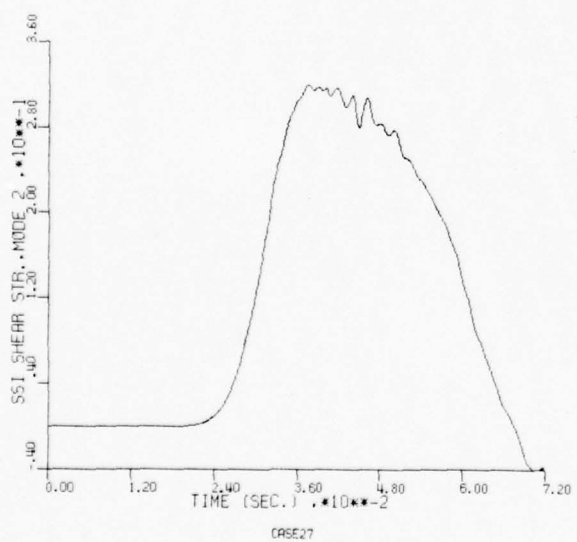
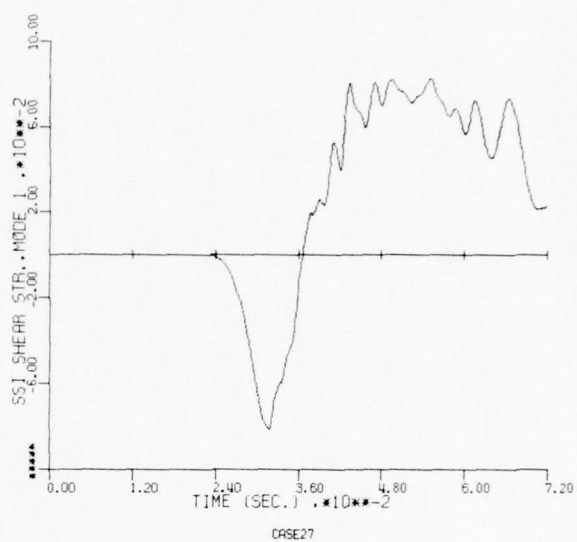
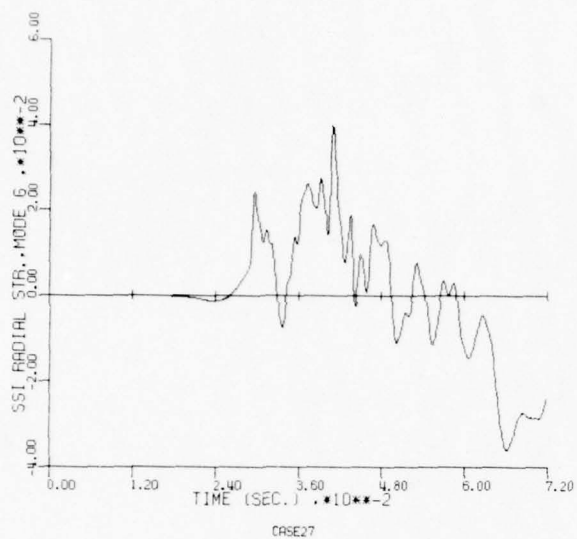


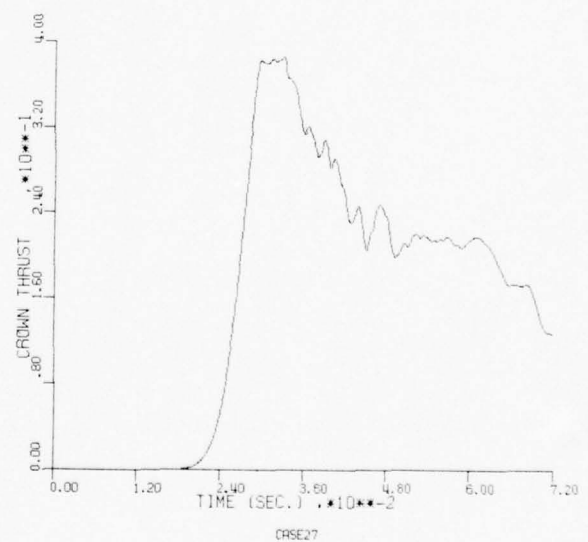
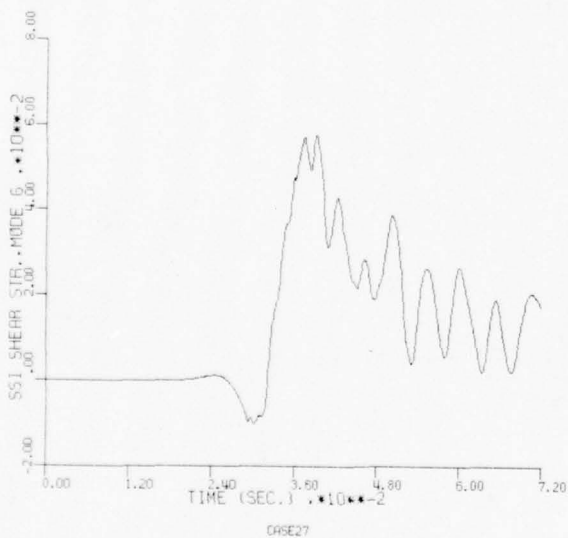
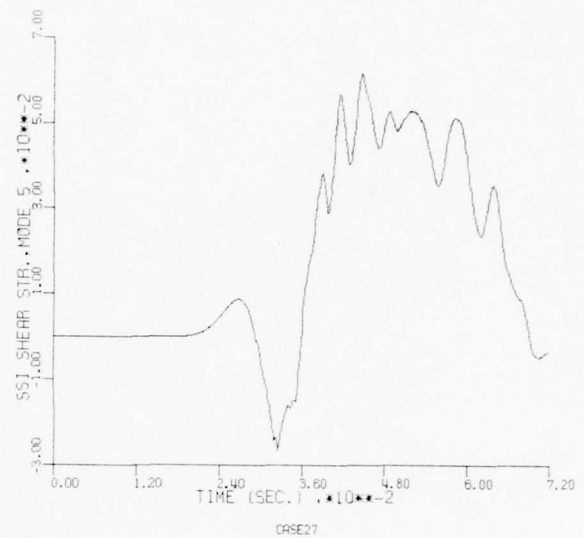
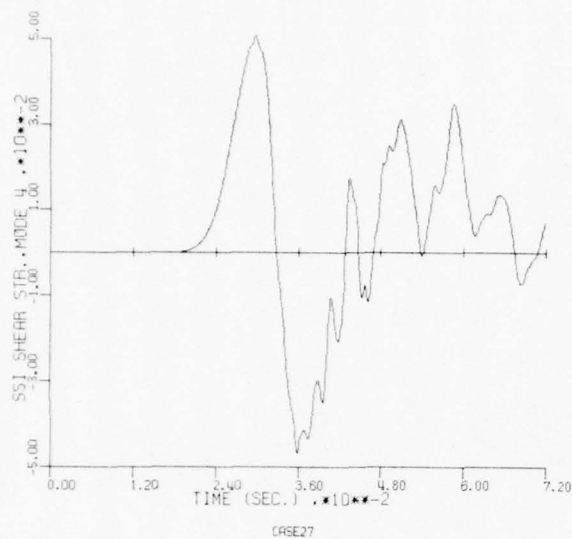




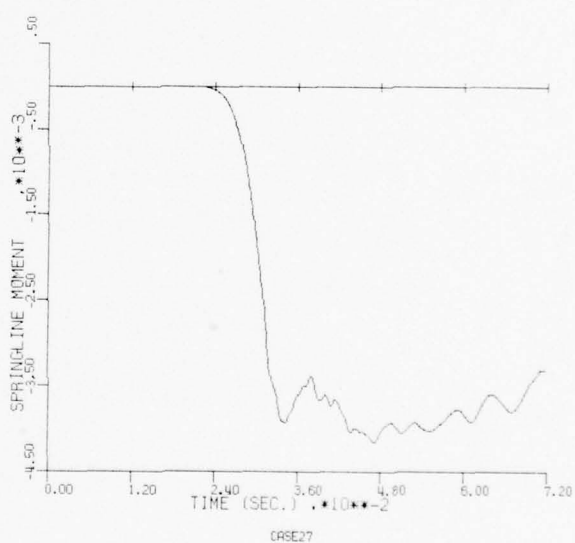
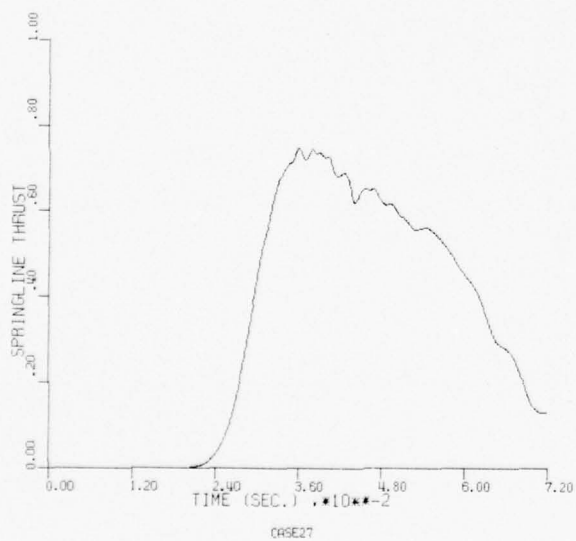
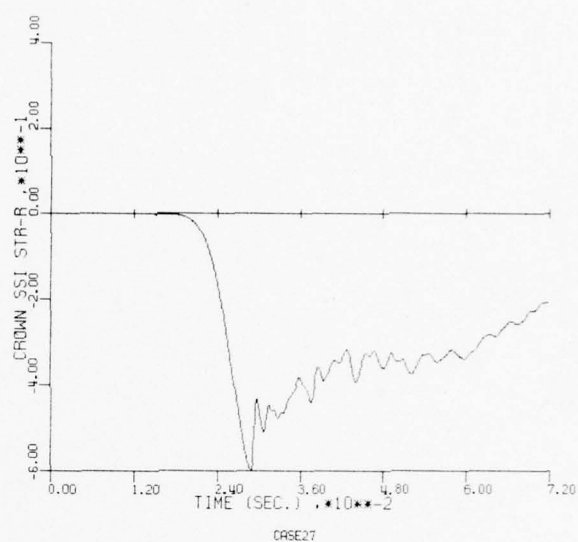
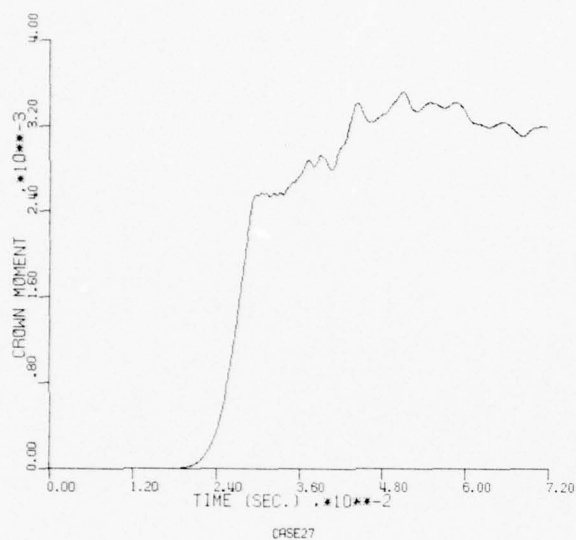


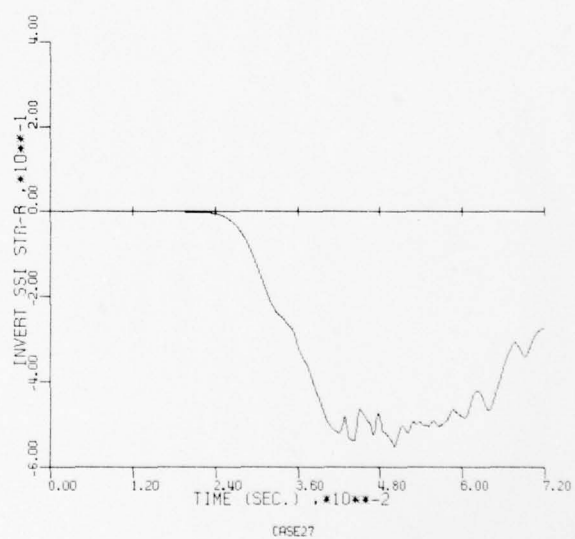
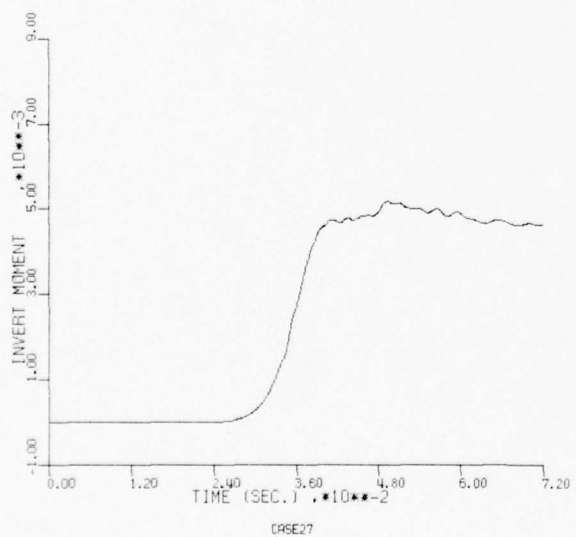
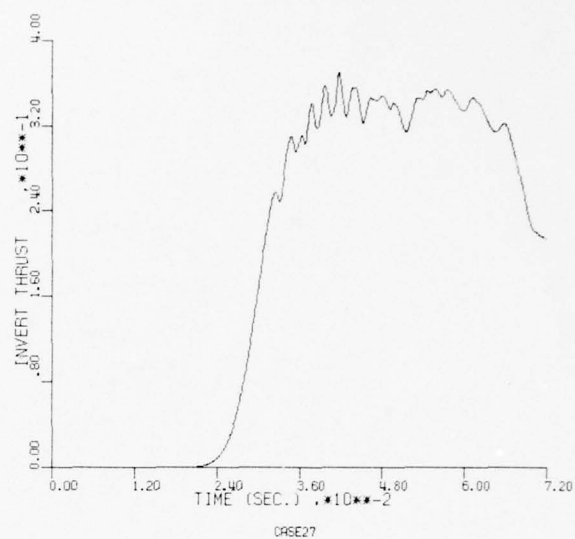
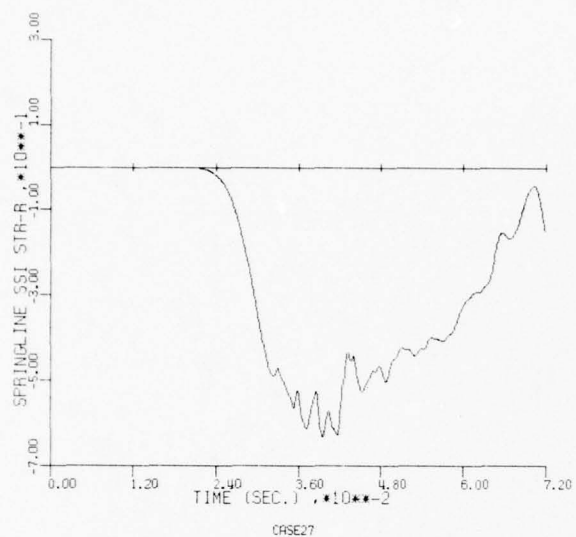












CASE28

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## MIN.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.020654	-.914818	-.443942	-.000004
	2	0.000000	0.000000	-.024276	-.854921	-.430027	-.061680
	3	0.000000	0.000000	-.048765	-.798766	-.458529	-.088171
	4	0.000000	-.0002938	-.062553	-.680510	-.422749	-.089066
	5	0.000000	-.0010233	-.066773	-.638637	-.394900	-.073818
	6	0.000000	-.0016684	-.086803	-.624570	-.419146	-.077538
	7	0.000000	-.0024410	-.064236	-.584732	-.400912	-.036801
	8	0.000000	-.0029149	-.077846	-.603016	-.530650	-.040043
	9	0.000000	-.0033840	-.048681	-.528417	-.545930	-.102446
	10	0.000000	-.0033685	-.071411	-.794139	-.671201	-.216746
	11	0.000000	-.0036517	-.048615	-.567091	-.730478	-.261531
SPR	12	0.000000	-.0035168	-.043137	-.629622	-.874999	-.286572
	13	0.000000	-.0033111	-.039712	-.789414	-.803920	-.337999
	14	0.000000	-.0031831	-.031302	-.621218	-.591905	-.328835
	15	0.000000	-.0032570	-.017256	-.781902	-.589939	-.389676
	16	0.000000	-.0028011	-.022092	-.596660	-.458990	-.330898
	17	0.000000	-.0027283	-.032367	-.715094	-.545260	-.422462
	18	0.000000	-.0020206	-.028669	-.540100	-.360610	-.329025
	19	0.000000	-.0010780	-.035803	-.696647	-.482549	-.425453
	20	0.000000	-.0000000	-.024817	-.541086	-.356962	-.316341
	21	0.000000	-.0000000	-.038199	-.578938	-.418180	-.383479
	22	0.000000	-.0001193	-.026807	-.595197	-.378400	-.325092
	23	0.000000	-.0000000	-.025318	-.658228	-.398616	-.277052
INV	24	0.000000	-.0000939	-.016594	-.534623	-.490572	-.188215

## MAX.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.327180	.0021937	.006758	0.000000	0.000000	.115212
	2	.343512	.0021778	.013732	0.000000	0.000000	.203328
	3	.369205	.0020841	0.000000	0.000000	0.000000	.282750
	4	.414156	.0017845	0.000000	0.000000	0.000000	.298031
	5	.457755	.0013129	.000000	0.000000	0.000000	.283795
	6	.505160	.0007089	.007343	0.000000	0.000000	.275014
	7	.549569	.0003164	.030524	0.000000	0.000000	.293154
	8	.600325	.0000132	.043194	0.000000	0.000000	.345215
	9	.611970	.0000000	.065350	0.000000	0.000000	.336617
	10	.631646	.0000000	.077626	0.000000	0.000000	.380518
	11	.668196	.0000000	.082729	0.000000	0.000000	.420429
SPR	12	.694759	.0003129	.097980	0.000000	0.000000	.389563
	13	.703217	.0006195	.090822	0.000000	0.000000	.480384
	14	.728697	.0009837	.102034	0.000000	0.000000	.189491
	15	.708188	.0011510	.087675	0.000000	0.000000	.282321
	16	.703230	.0013573	.093238	0.000000	0.000000	.142529
	17	.657119	.0013647	.073036	0.000000	0.000000	.167525
	18	.628520	.0017168	.088981	0.000000	0.000000	.052331
	19	.545551	.0019136	.065426	0.000000	0.000000	.129143
	20	.514954	.0020719	.101662	0.000000	0.000000	.130192
	21	.440599	.0020740	.081167	0.000000	0.000000	.171896
	22	.404541	.0032471	.067215	0.000000	0.000000	.118649
	23	.356375	.0038652	.037476	0.000000	0.000000	.015411
INV	24	.339753	.0039389	.015632	0.000000	0.000000	.000000

MIN-MAX MODAL AMPLITUDES -- CASE28

LINER THRUST PEAK MODAL AMPLITUDES

MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.15107E+00	-.19991E+00	-.10806E+00	-.40401E-01	-.24461E-01	-.21087E-01
MAX	.46781E+00	.21281E+00	.83484E-01	.41468E-01	.24448E-01	.14033E-01

LINER MOMENT PEAK MODAL AMPLITUDES

MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.16361E-03	-.57931E-05	0.	-.10409E-02	-.82500E-03	-.60017E-03
MAX	.27147E-15	.12612E-04	.30007E-02	.70622E-03	.43882E-03	.42475E-03

LINER SHEAR PEAK MODAL AMPLITUDES

MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.46001E-02	-.47055E-01	-.32747E-01	-.21389E-01	-.15832E-01	-.18070E-01
MAX 0.	.34890E-02	0.	.25458E-01	.29031E-01	.28224E-01	.23341E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES

MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.47016E+00	-.29987E+00	-.21308E+00	-.99579E-01	-.89071E-01	-.86771E-01
MAX 0.	.15966E+00	.12512E+00	.10478E+00	.66180E-01	.74555E-01	.62704E-01

SSI SHEAR STR. PEAK MODAL AMPLITUDES

MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.38619E-01	-.65316E-01	-.21065E+00	-.84157E-01	-.64687E-01	-.34226E-01
MAX 0.	.13374E+00	.31466E+00	.16269E+00	.85776E-01	.10093E+00	.72226E-01

CASE 28

CROWN THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT  
SRSS .008668 .004486 .001445 .000254 .000232 .000034 .000486  
MIN. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. 1.429820 1.515643 1.272764 1.069420 .975406 .970377 .994377  
INPUT  
VARIABLE .54223E-02  
0.  
.32718E+00

CROWN MOMENT  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT  
SRSS .042600 .042045 .015040 .011149 .001840 .000886 .000283  
MIN. -.000164 -.000165 0.000000 0.000000 0.000000 0.000000 0.000000  
MAX. .000000 .000000 1.290038 1.162916 1.110371 1.033925 1.033171  
INPUT  
VARIABLE .56353E-04  
0.  
.21937E-02

CROWN SSI STR-R  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT  
SRSS .000059 .006785 .001110 .005221 .000289 .000634 .001377  
MIN. .513936 .014038 .716568 .873120 .966701 1.019049 1.039470  
MAX. 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000 0.000000  
INPUT  
VARIABLE .83402E-02  
-.91482E+00  
0.

SPRINGLINE THRUST  
\*\*\*\*\*  
MODE 0 MODLS 0-1 MODAL HISTORY/INPUT  
SRSS .001392 .001036 .000220 .000318 .000309 .000281 .000094  
MIN. 0.000000 0.000000 -.000000 -.000000 -.000000 -.000000 0.000000  
MAX. .673340 .665812 .946779 .941271 .976020 .967154 .979259  
INPUT  
VARIABLE .13140E-01  
0.  
.69476E+00



```

SPRINGLINE MOMENT
*****
MODE 0      MODES 0-1  MODES 0-2  MODES 0-3  MODES 0-4  MODES 0-5  MODES 0-6
SRSS      .036096      .036094      .008971      .004901      .002371      .002624      .001711
MIN.      .046524      .046557      .886278      .838905      .952690      .925160      .964626
MAX.      .000000      .000000      0.000000      0.000000      .237082      .586421      .602645
VARIABLE *****
INPUT      .72134E-04
          -.35168E-02
          .31286E-03

```

```

SPRINGLINE SSI STR-R
*****
MODE 0      MODES 0-1  MODES 0-2  MODES 0-3  MODES 0-4  MODES 0-5  MODES 0-6
SRSS      .009804      .009444      .003105      .004116      .008076      .007982      .006367
MIN.      .746731      .740846      .935984      .923866      .914070      .956767      .987495
MAX.      0.000000      0.000000      .038988      .067898      0.000000      .001861      0.000000
VARIABLE *****
INPUT      .10387E-01
          -.62962E+00
          0.

```

```

INVERT THRUST
*****
MODE 0      MODES 0-1  MODES 0-2  MODES 0-3  MODES 0-4  MODES 0-5  MODES 0-6
SRSS      .008120      .000443      .002424      .001649      .001663      .001534      .001240
MIN.      0.000000      -.021280      -.008749      -.000000      -.000001      -.000000      -.000000
MAX.      1.376907      1.669982      1.211973      1.037477      .987891      1.013164      1.008167
VARIABLE *****
INPUT      .83315E-02
          0.
          .33975E+00

```

```

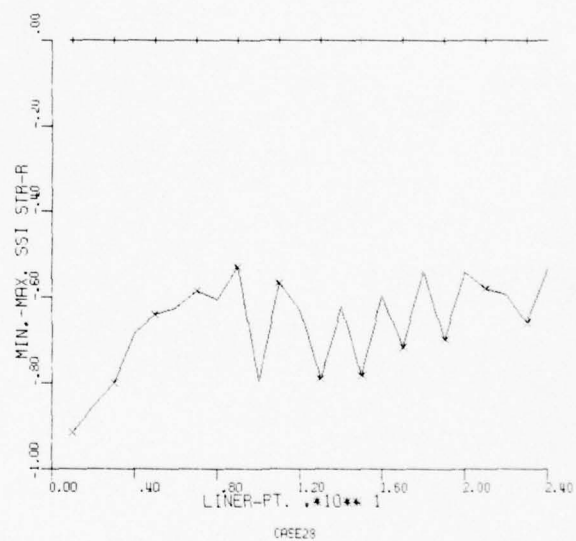
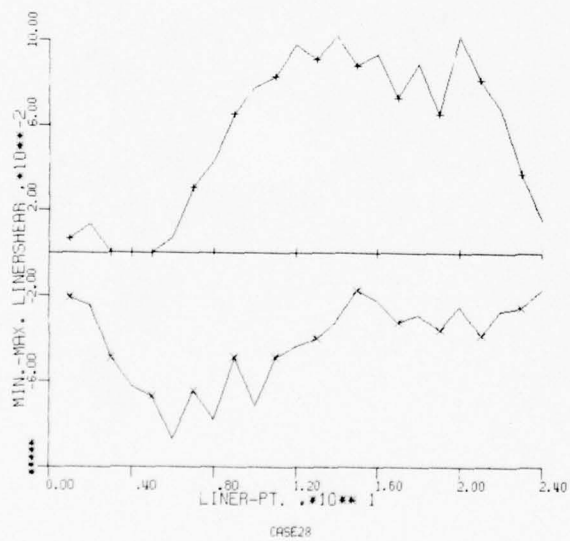
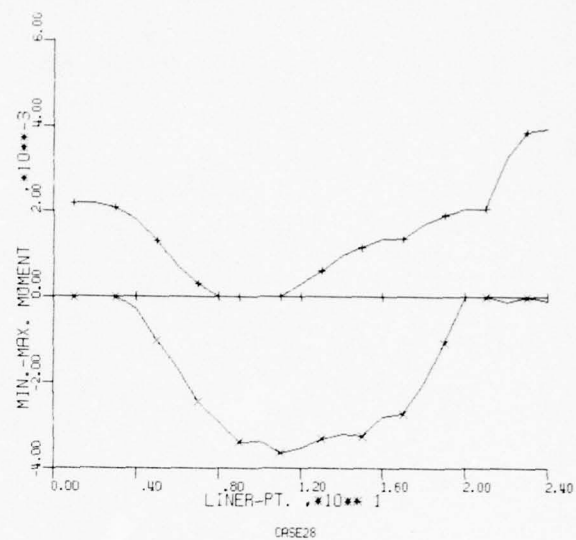
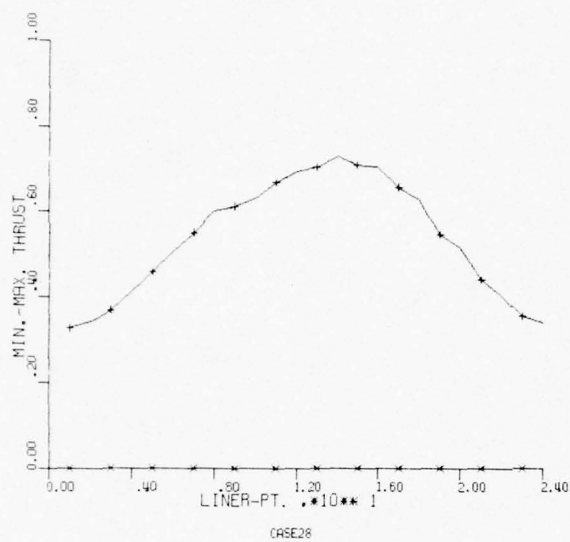
INVERT MOMENT
*****
MODE 0      MODES 0-1  MODES 0-2  MODES 0-3  MODES 0-4  MODES 0-5  MODES 0-6
SRSS      .048400      .048375      .015360      .000371      .004957      .004411      .005080
MIN.      1.742225      1.723303      0.000000      5.360268      4.682921      1.138618      2.337454
MAX.      .000000      0.000000      .720387      .954220      1.047282      1.088859      1.081373
VARIABLE *****
INPUT      .98461E-04
          -.93911E-04
          .39389E-02

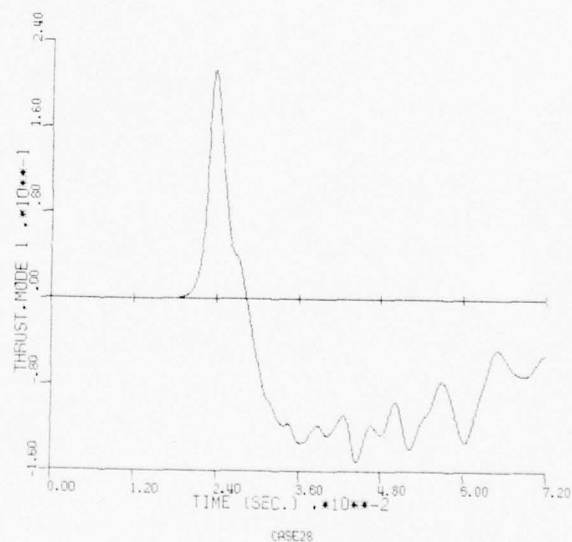
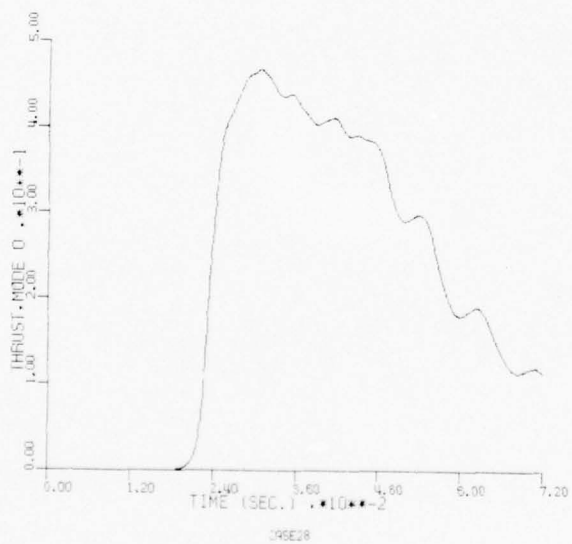
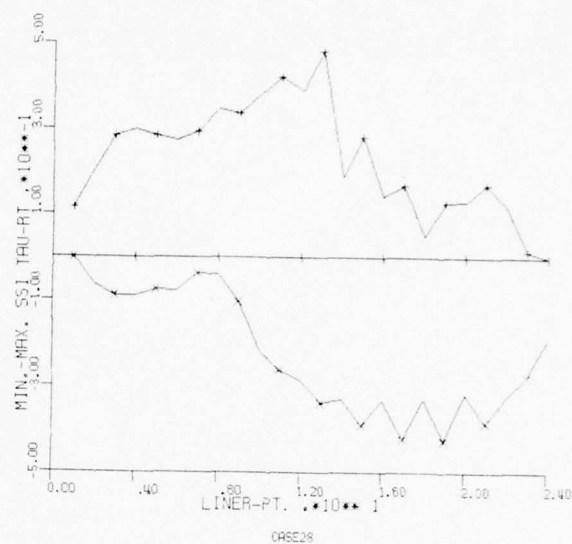
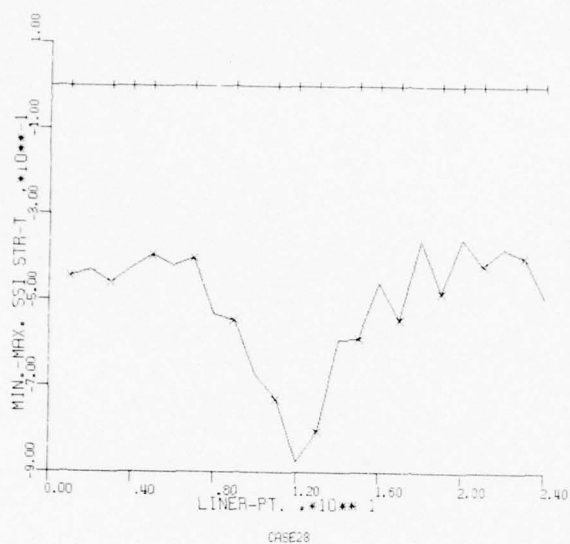
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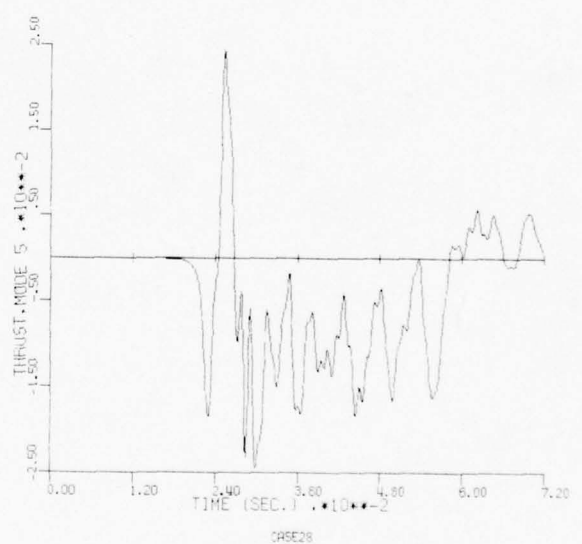
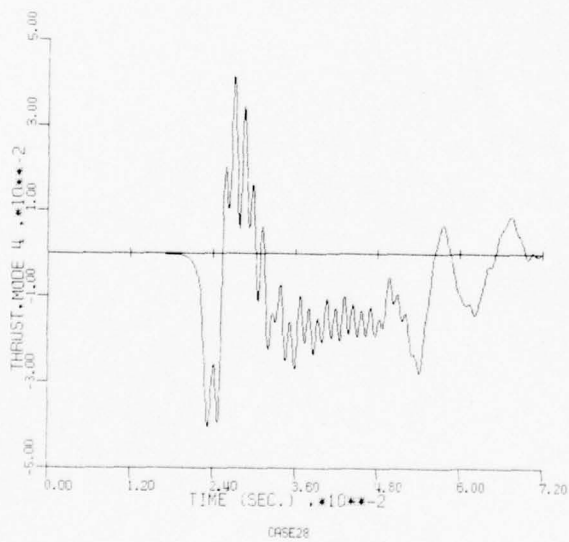
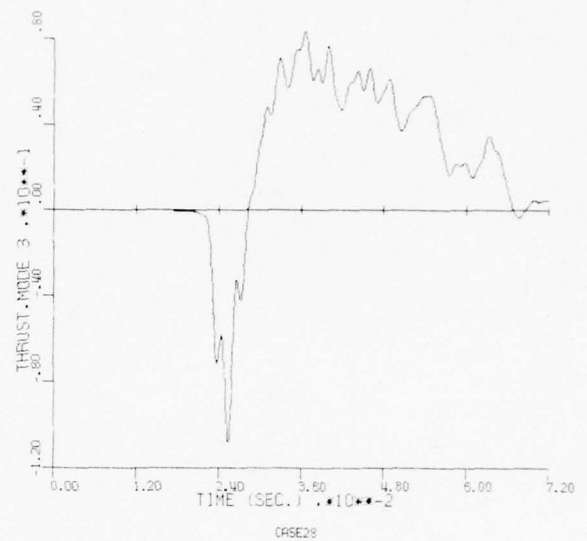
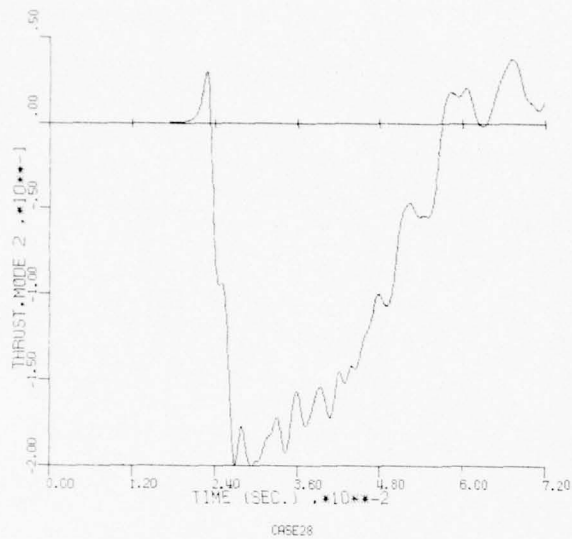
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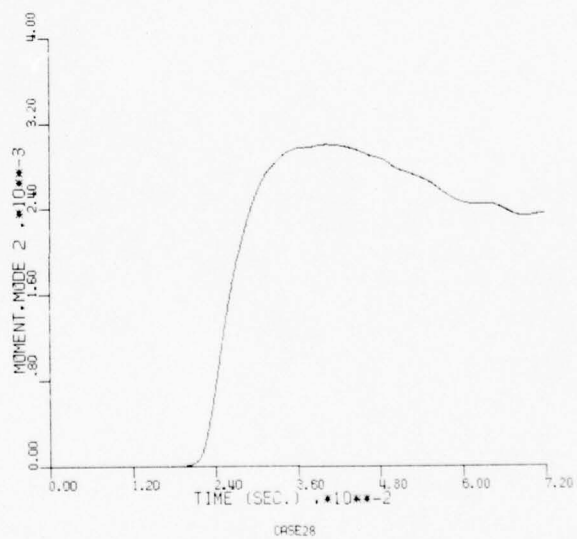
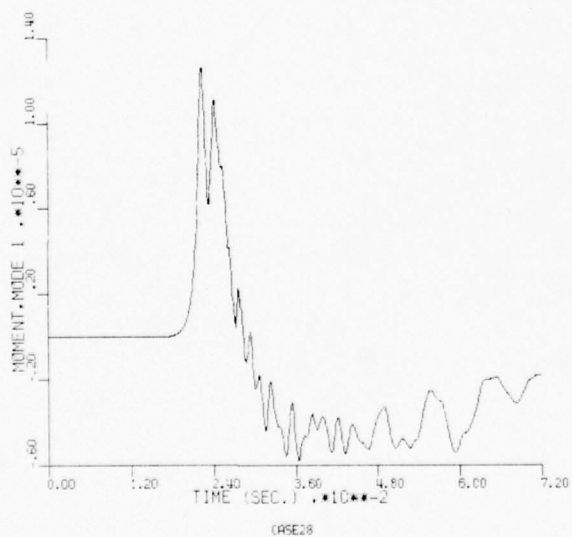
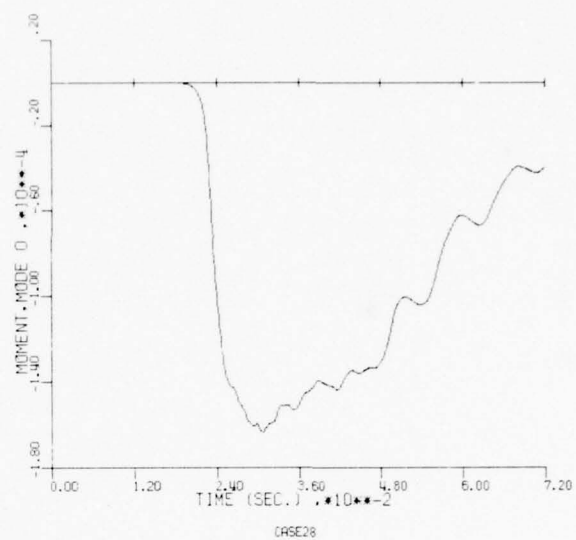
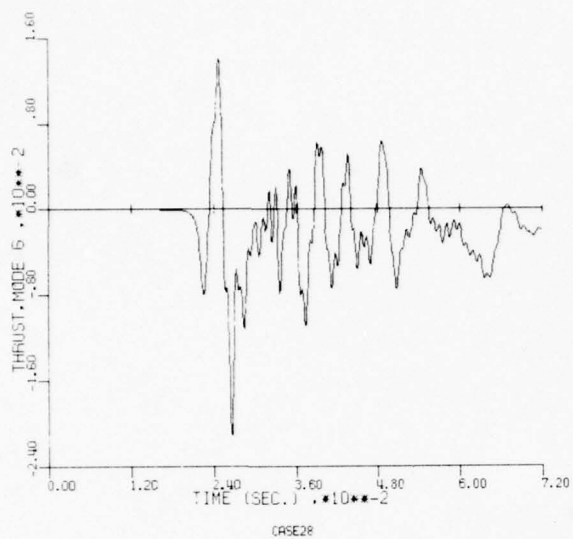
INVERT SSI STR-R
*****
MODE 0      MODES 0-1  MODES 0-2  MODES 0-3  MODES 0-4  MODES 0-5  MODES 0-6
SRSS      .007832      .002926      .002734      .007271      .010807      .011055      .012496
MIN.      .879420      1.091766      1.016857      1.024695      1.139410      1.151731      1.144857
MAX.      0.000000      .120897      .029173      .057245      .026954      .018939      .020516
VARIABLE *****
INPUT      .11635E-01
          -.53462E+00
          0.

```

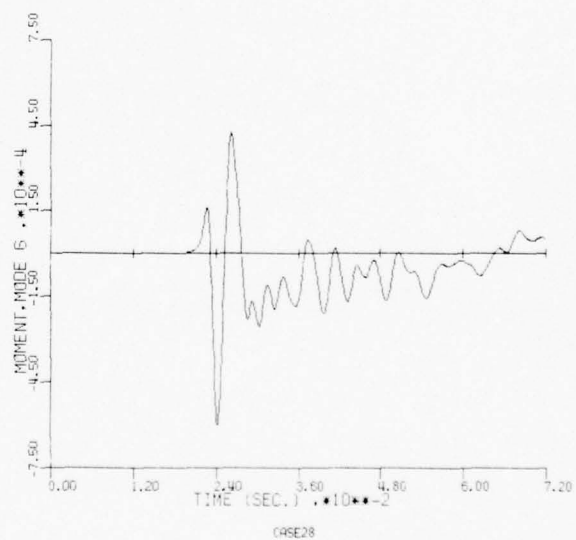
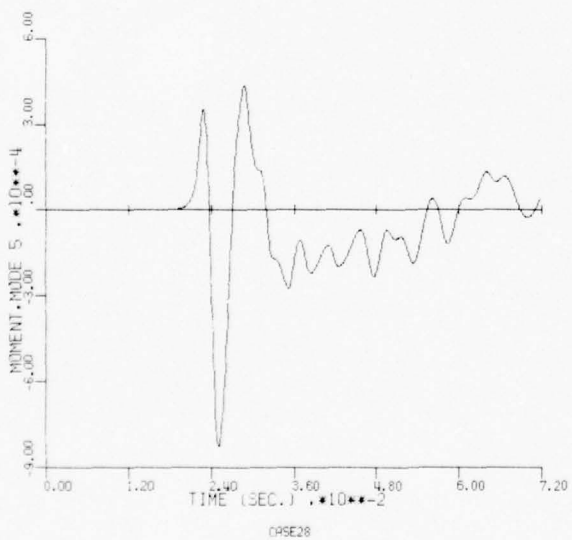
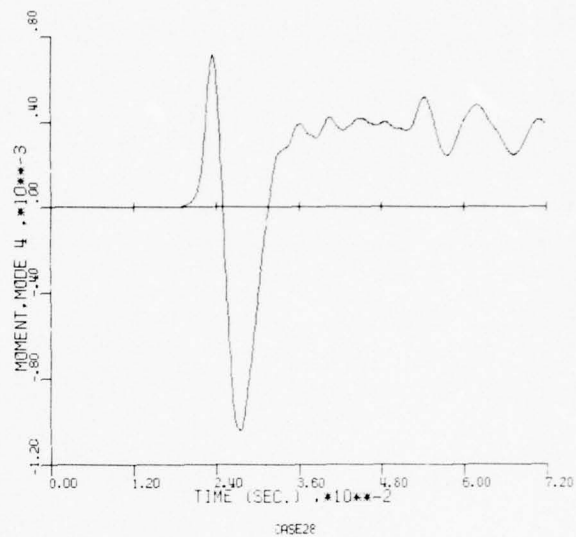
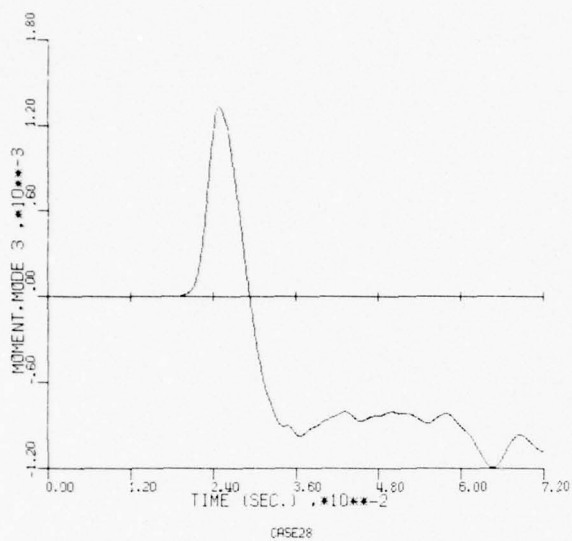


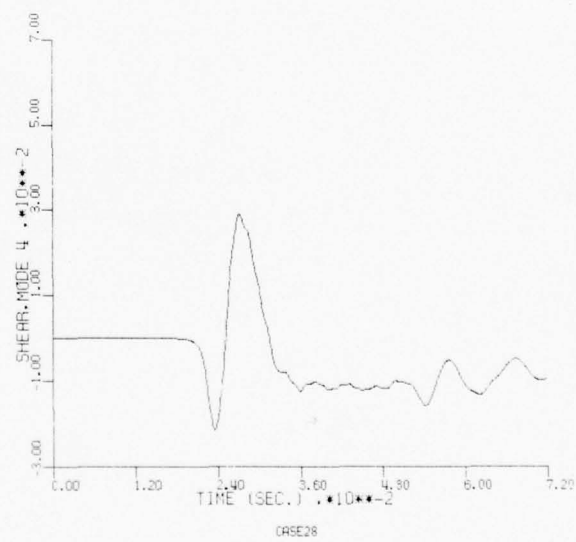
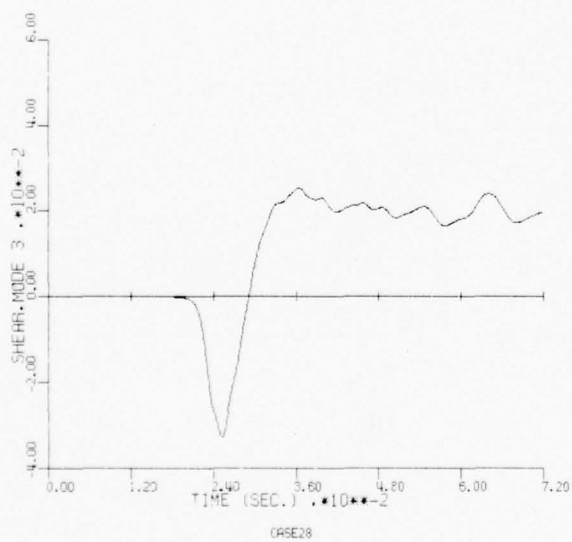
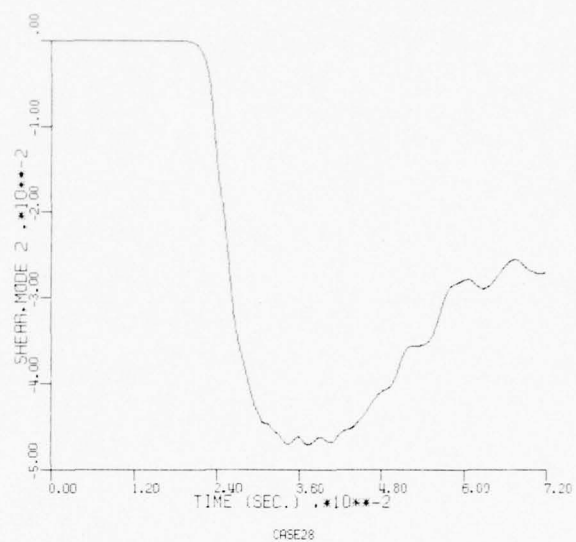
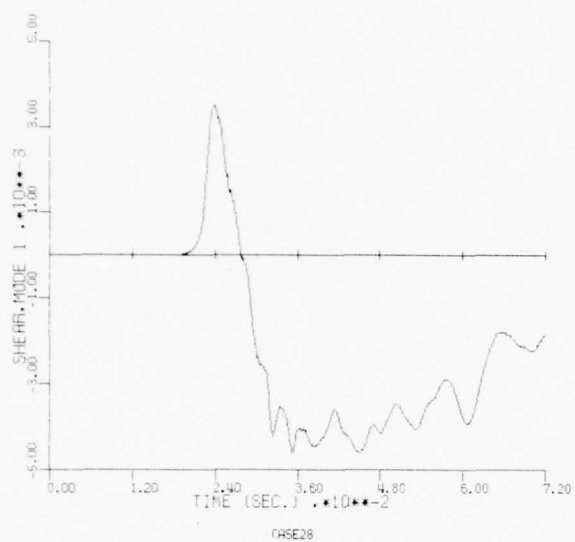


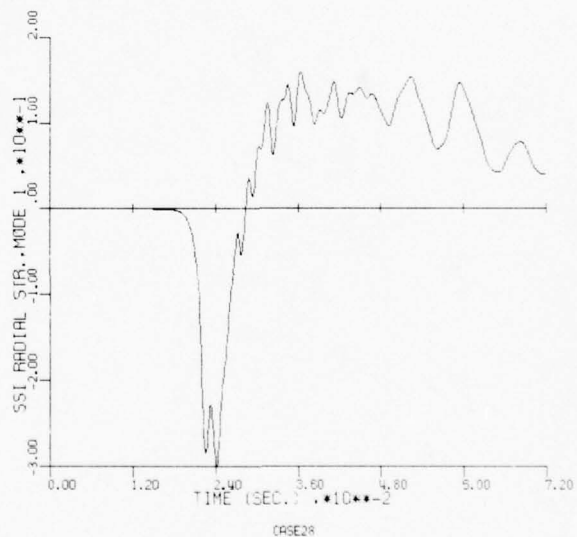
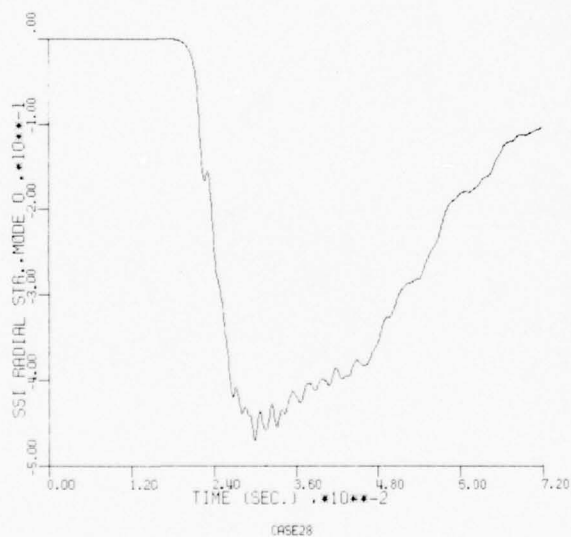
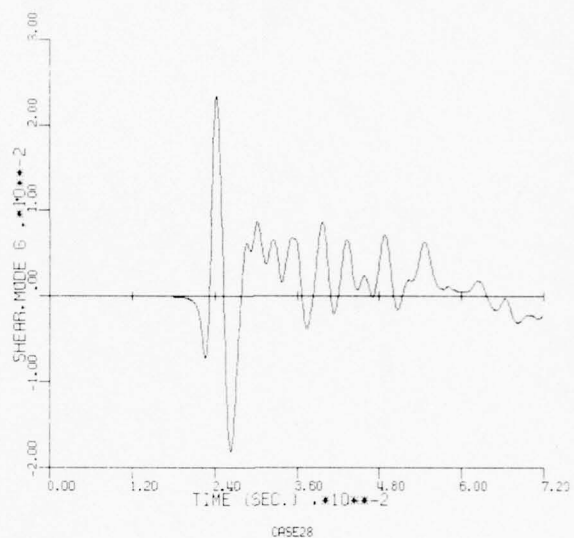
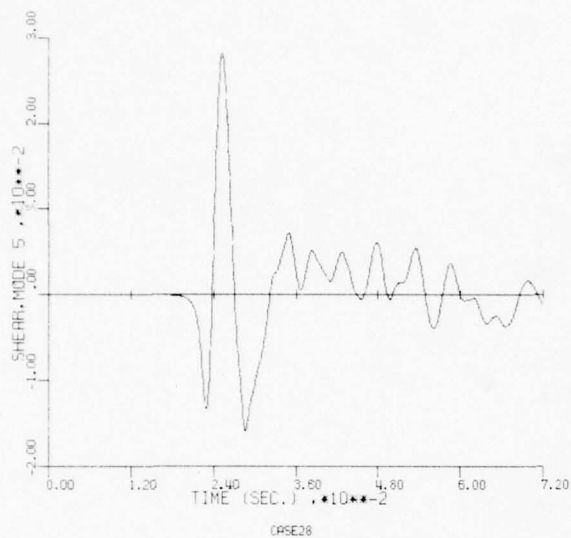


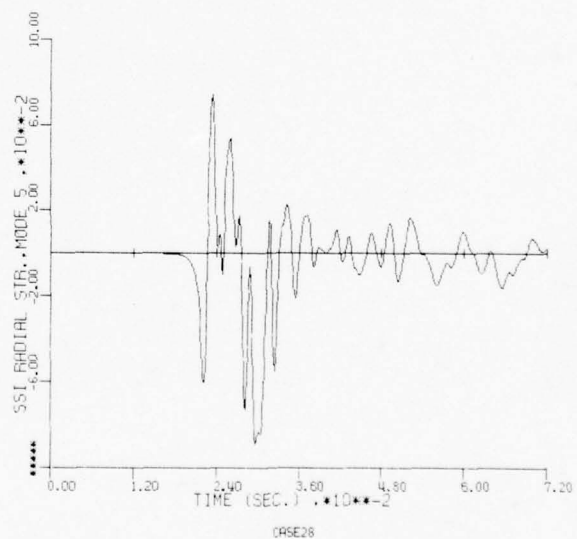
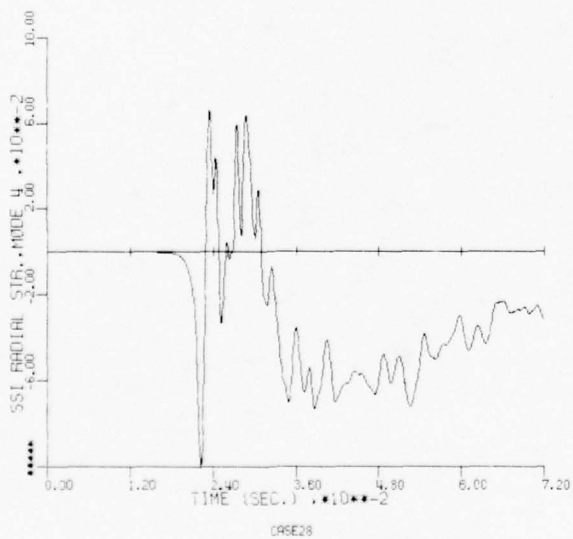
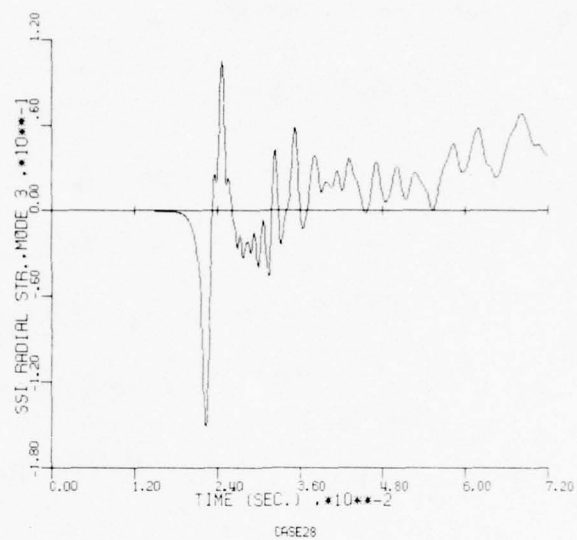
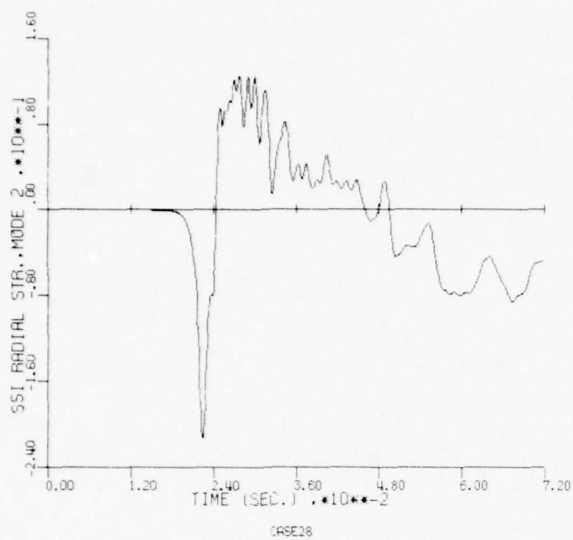


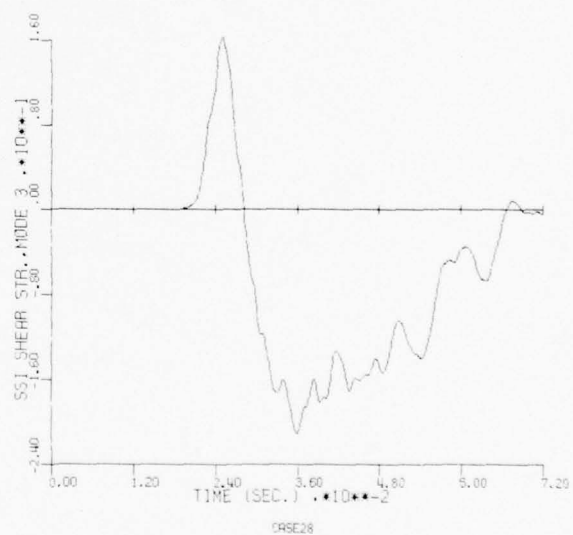
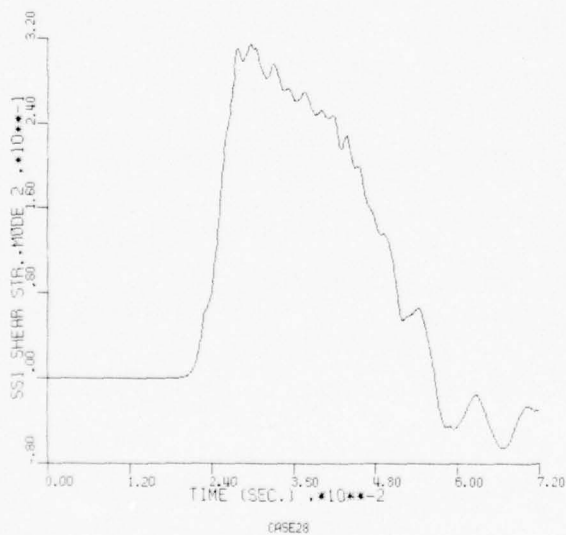
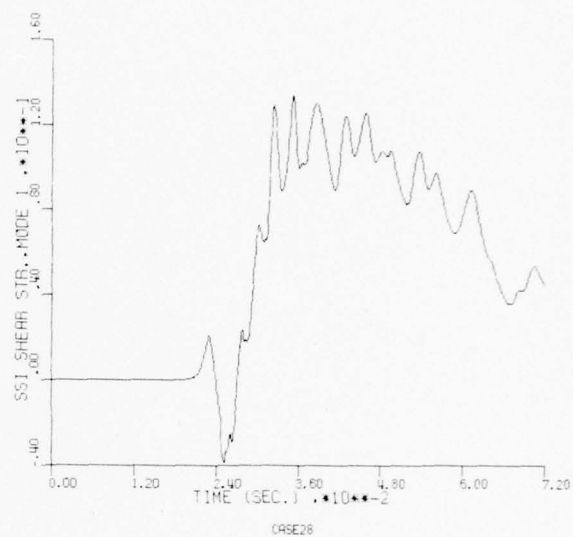
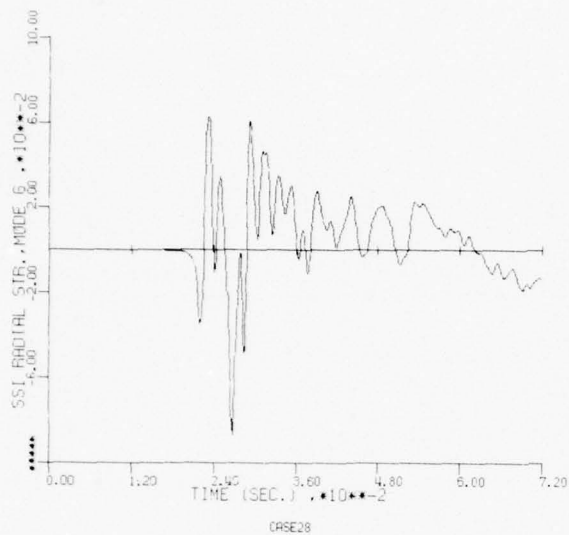




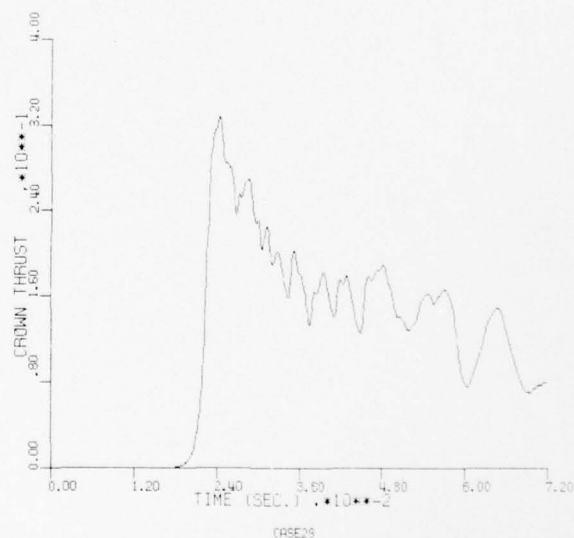
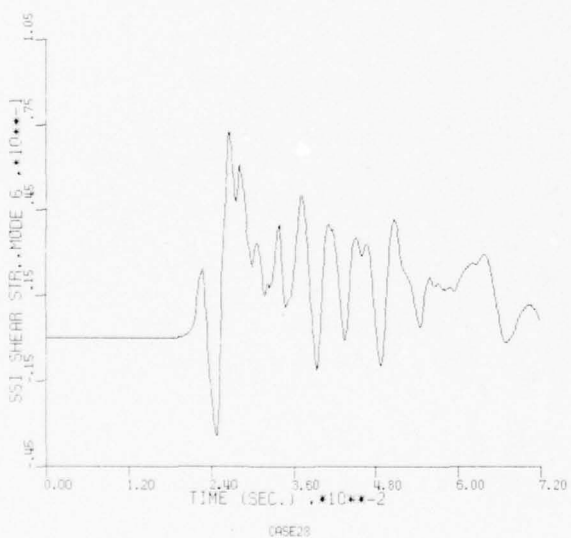
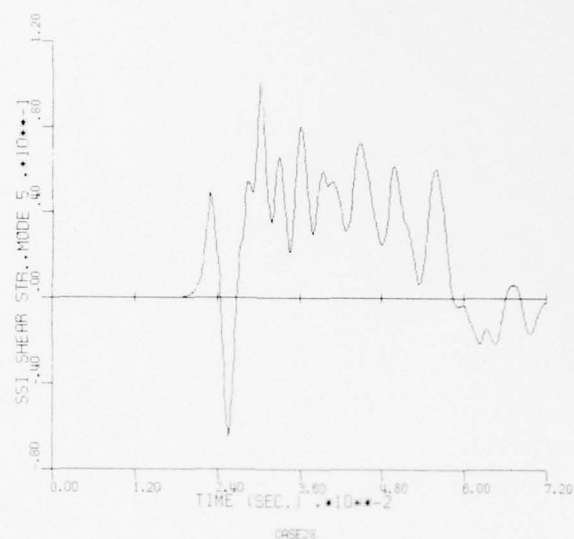
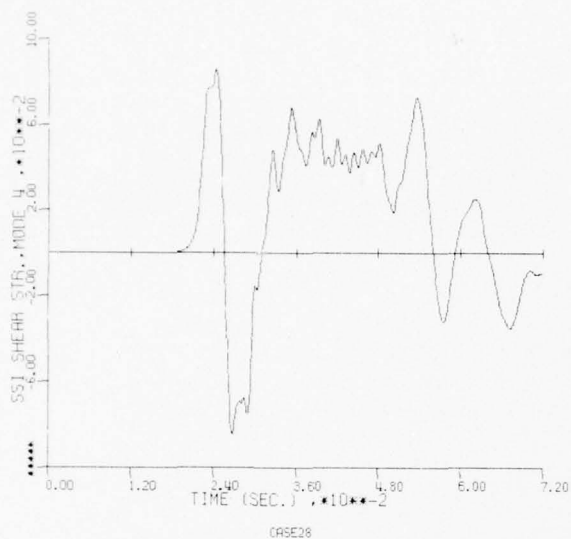


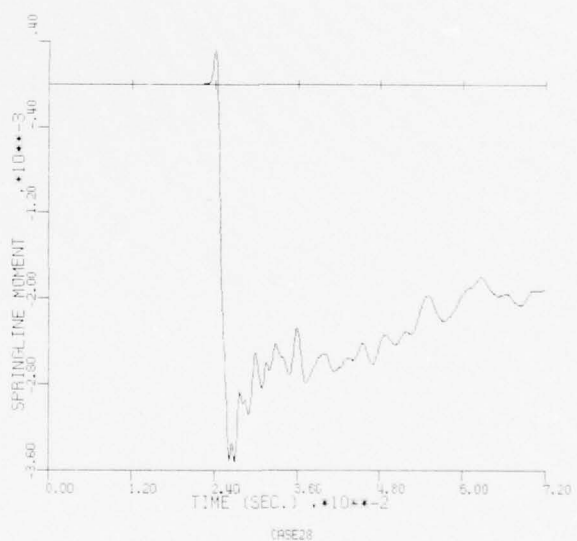
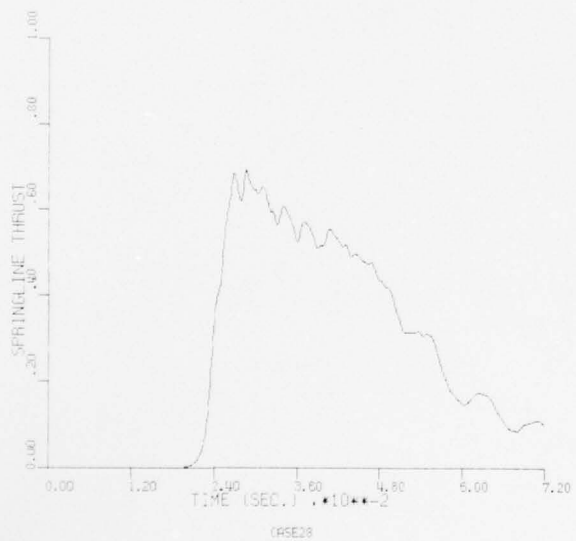
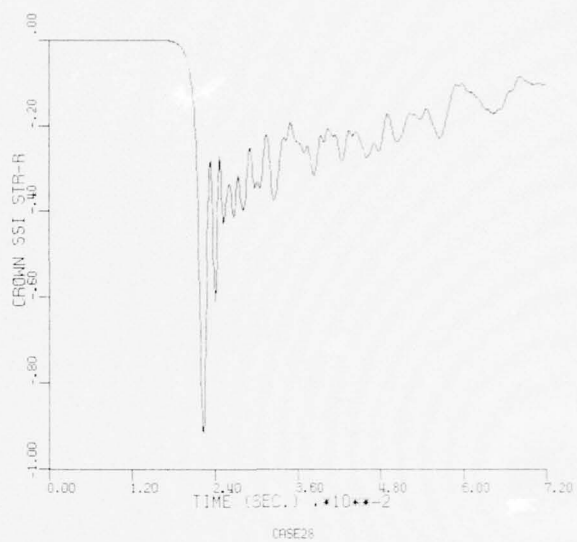
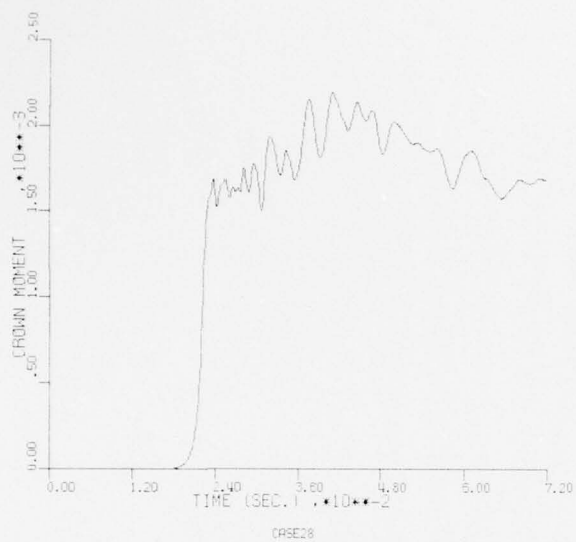


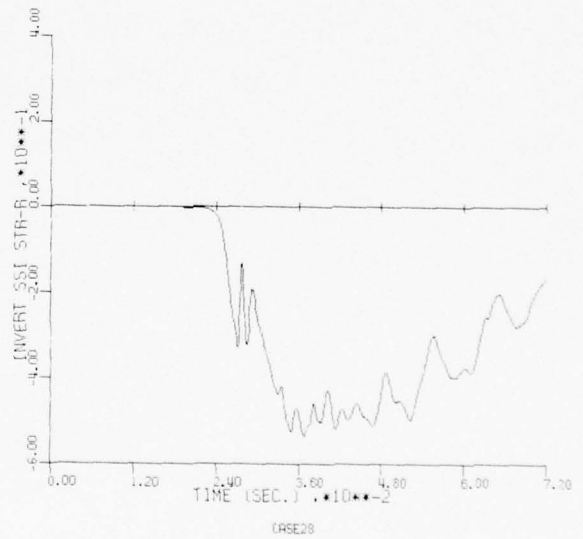
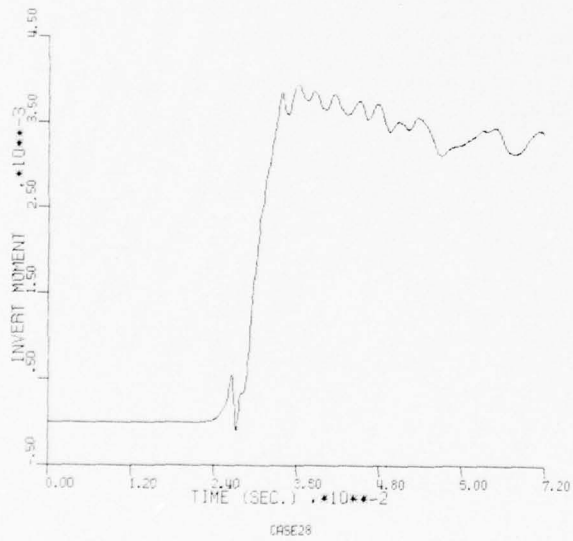
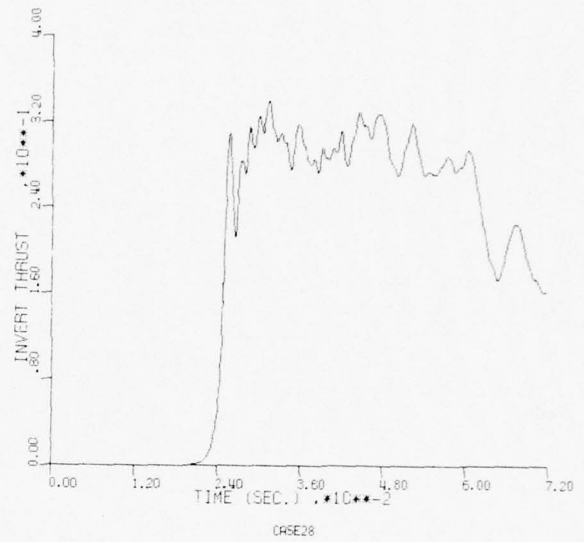
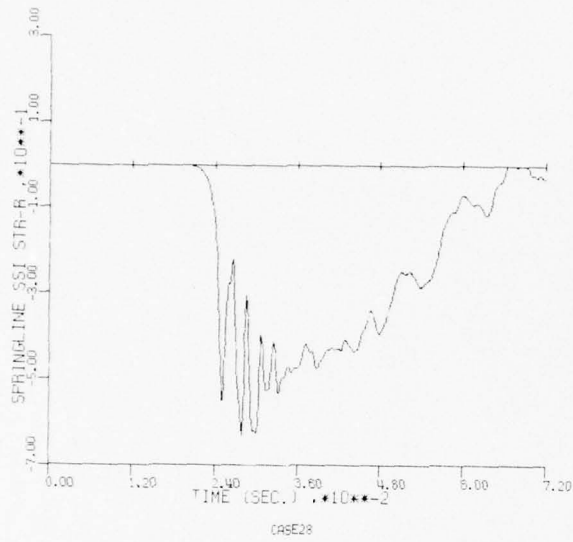












CASE29

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## MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.009375	-.250622	-.105721	-.011663
	2	0.000000	0.000000	-.020090	-.249285	-.106229	-.003428
	3	0.000000	0.000000	-.016498	-.237492	-.110627	0.000000
	4	0.000000	-.0000017	-.022721	-.230507	-.115101	0.000000
	5	0.000000	-.0001290	-.026802	-.219067	-.116378	0.000000
	6	0.000000	-.0004212	-.029059	-.209820	-.127017	0.000000
	7	0.000000	-.0007482	-.031177	-.240951	-.124288	0.000000
	8	0.000000	-.0010432	-.041367	-.191755	-.131809	-.032352
	9	0.000000	-.0012624	-.026758	-.206794	-.119824	-.017318
	10	0.000000	-.0013828	-.019956	-.208500	-.124695	-.055694
	11	0.000000	-.0014084	-.006924	-.201695	-.132168	-.078836
SPR	12	0.000000	-.0013504	-.022094	-.216352	-.124042	-.106873
	13	0.000000	-.0013147	-.008619	-.215131	-.125993	-.119519
	14	0.000000	-.0012464	-.005654	-.200696	-.106150	-.136004
	15	0.000000	-.0011546	-.000000	-.213209	-.114823	-.161308
	16	0.000000	-.0010085	-.000000	-.205031	-.097181	-.158928
	17	0.000000	-.0008317	-.000000	-.208632	-.096323	-.183969
	18	0.000000	-.0005585	-.000000	-.203818	-.068607	-.185668
	19	0.000000	-.0002393	-.000000	-.200302	-.084064	-.202093
	20	0.000000	-.0000000	-.001498	-.175193	-.063286	-.219358
	21	0.000000	-.0000000	-.004886	-.161914	-.072977	-.192476
	22	0.000000	-.0000000	-.005303	-.155067	-.073192	-.121378
	23	0.000000	-.0000000	-.005043	-.157816	-.083873	-.073047
INV	24	0.000000	-.0000000	-.002838	-.163321	-.078366	-.032161

## MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.148102	.0011667	.004697	0.000000	.052586	.029868
	2	.153821	.0009593	.003311	0.000000	.056924	.051920
	3	.164589	.0008513	.004408	0.000000	.039558	.086733
	4	.176745	.0008142	.000500	0.000000	.058662	.107024
	5	.193433	.0006133	.000000	0.000000	.038749	.136779
	6	.207907	.0004775	.000000	0.000000	.049902	.140566
	7	.221636	.0001916	.000239	0.000000	.057892	.183974
	8	.238754	.0000000	.001188	.000645	.049143	.127592
	9	.245267	.0000000	.005879	0.000000	0.000000	.157522
	10	.249845	.0000000	.009230	0.000000	.014060	.181945
	11	.258764	.0000000	.017752	0.000000	0.000000	.249995
SPR	12	.263232	.0000000	.022488	0.000000	.004054	.092350
	13	.268201	.0000021	.026182	0.000000	.005532	.096959
	14	.263863	.0000193	.027383	0.000000	.011044	.075902
	15	.262304	.0000738	.026522	0.000000	.003462	.023254
	16	.248787	.0001774	.026704	0.000000	0.000000	.000000
	17	.223197	.0003343	.024456	0.000000	0.000000	.000000
	18	.199324	.0004942	.026124	0.000000	0.000000	.000000
	19	.165676	.0005649	.028325	0.000000	0.000000	.000000
	20	.141627	.0006461	.036917	0.000000	0.000000	.000000
	21	.114921	.0007676	.030217	0.000000	0.000000	.000000
	22	.107640	.0010645	.027504	0.000000	0.000000	.000000
	23	.102508	.0014688	.020338	0.000000	0.000000	.000000
INV	24	.104358	.0017032	.007940	0.000000	0.000000	.000000

MIN=MAX MODAL AMPLITUDES -- CASE29

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	.30427E+01	.97008E+01	-.31203E+01	-.83216E+02	.11573E+01	-.47447E+02
MAX	.16257E+00	.74462E+01	.66637E+03	.36100E+01	.15075E+01	.64951E+02	.26090E+02

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.56661E+04	.20552E+05	0.	-.25767E+03	-.31785E+03	.19254E+03	-.90392E+04
MAX	.22038E+15	.39549E+05	.12347E+02	.56928E+03	.17841E+03	.59198E+04	.55291E+04

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	.10470E+02	-.20613E+01	.12850E+01	.51975E+02	.26325E+02	-.23541E+02
MAX	0.	.18423E+02	0.	.82294E+02	.91280E+02	.65242E+02	.35877E+02

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.15422E+00	.10069E+00	.37226E+01	.21507E+01	-.23120E+01	.18243E+01	-.11751E+01
MAX	0.	.38590E+01	.52634E+01	.20048E+01	.19580E+01	.22341E+01	.14917E+01

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	.36494E+01	0.	.85298E+01	-.36937E+01	.19767E+01	-.83810E+02
MAX	0.	.31451E+01	.15383E+00	.63522E+01	.19924E+01	.34177E+01	.16235E+01



CASE29

CROWN THRUST

```

*****
MODE 0 MODLS 0=1 MODAL HISTORY/INPUT MODES 0=3 MODES 0=4 MODES 0=5 MODES 0=6
SRSS .051494 .029743 .014949 .002134 .002064 .001742 .002377
MIN 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
MAX 1.097675 1.421618 1.211384 1.053242 1.000036 .994282 .997688
INPUT
VARIABLE
.25059E+02
0.
.14810E+00

```

CROWN MOMENT

```

*****
MODE 0 MODLS 0=1 MODAL HISTORY/INPUT MODES 0=3 MODES 0=4 MODES 0=5 MODES 0=6
SRSS .071046 .071102 .008223 .000606 .002224 .005986 .006731
MIN -.000057 -.000056 0.00000 0.00000 0.00000 0.00000 0.00000
MAX .00000 .00000 1.010320 1.050074 .968863 .887350 .844966
INPUT
VARIABLE
.29938E+04
0.
.11667E+02

```

CROWN SSI STR-R

```

*****
MODE 0 MODLS 0=1 MODAL HISTORY/INPUT MODES 0=3 MODES 0=4 MODES 0=5 MODES 0=6
SRSS .006718 .018065 .021051 .027059 .023884 .027776 .028342
MIN .615336 .799930 .917722 .987425 1.027931 1.028643 1.015532
MAX 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
INPUT
VARIABLE
.43480E+02
-.25062E+00
0.

```

SPRINGLINE THRUST

```

*****
MODE 0 MODLS 0=1 MODAL HISTORY/INPUT MODES 0=3 MODES 0=4 MODES 0=5 MODES 0=6
SRSS .019593 .020136 .003133 .004103 .002506 .002997 .002756
MIN 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000 0.00000
MAX .617585 .620208 .950333 .949046 .989397 .983105 .992986
INPUT
VARIABLE
.65868E+02
0.
.26323E+00

```

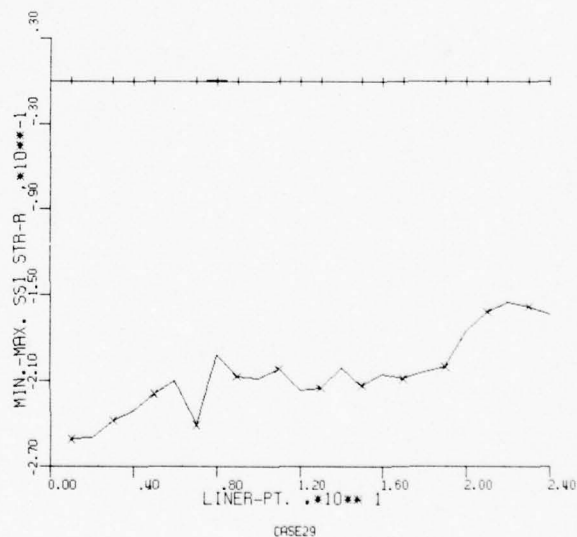
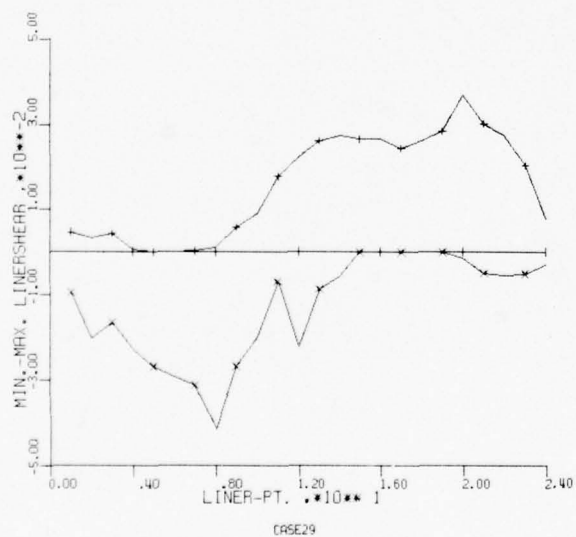
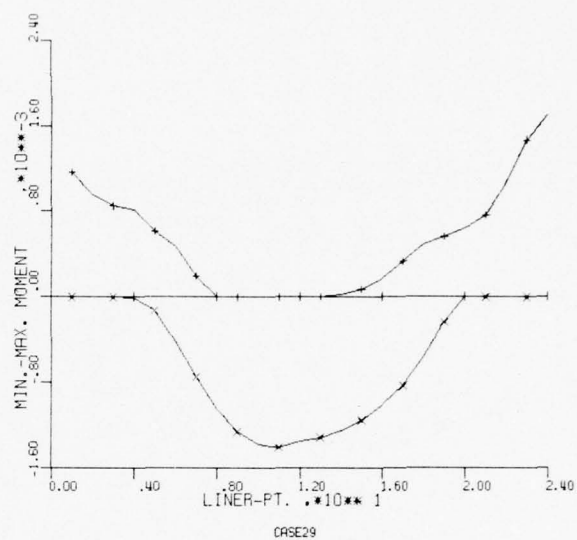
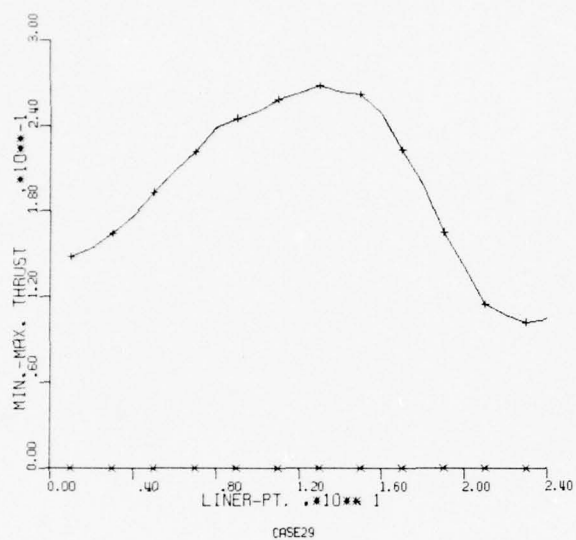
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODAL HISTORY/INPUT MODES 0=3 MODAL HISTORY/INPUT MODES 0=4 MODAL HISTORY/INPUT MODES 0=5 MODAL HISTORY/INPUT MODES 0=6  
SRSS .064218 .064214 .009921 .008280 .005636 .007544  
MIN .041960 .041937 .940494 .903593 1.026554 1.033302  
MAX .000000 .000000 0.000000 0.000000 .000000 .000000  
INPUT  
VARIABLE  
.32033E+04  
-.13504E+02  
.25462E+07

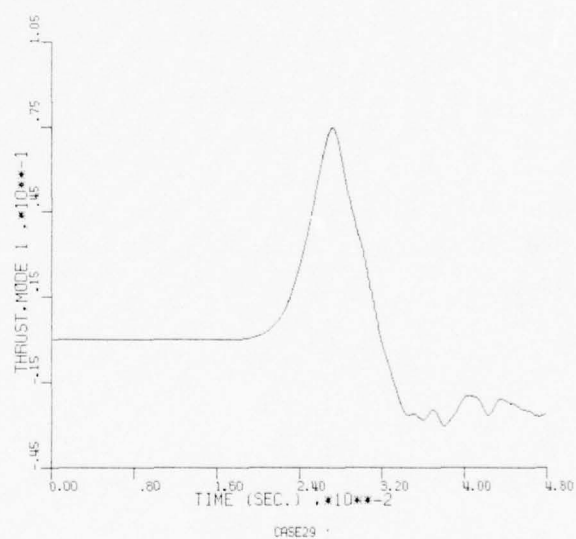
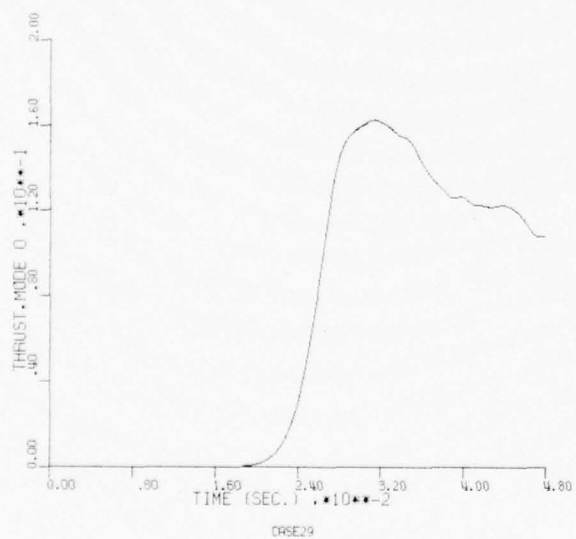
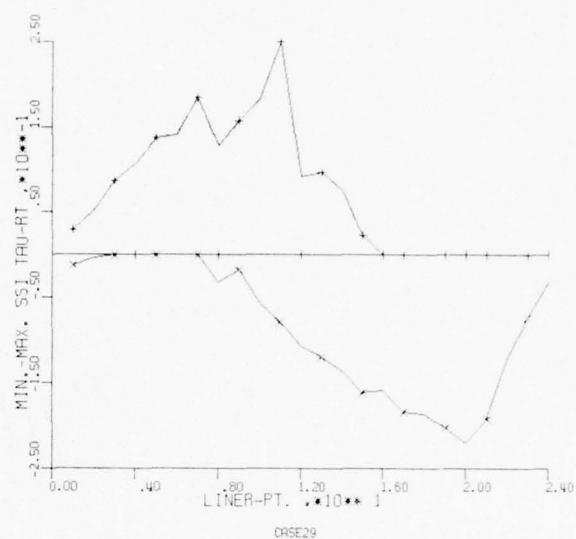
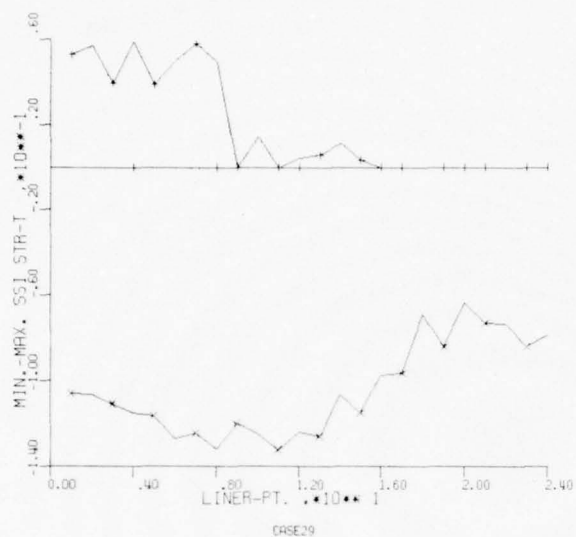
SPRINGLINE SSI STR=R  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODAL HISTORY/INPUT MODES 0=3 MODAL HISTORY/INPUT MODES 0=4 MODAL HISTORY/INPUT MODES 0=5 MODAL HISTORY/INPUT MODES 0=6  
SRSS .008703 .009360 .006722 .005666 .002861 .003528  
MIN .712807 .719456 .950004 .945698 .908290 .942851  
MAX 0.000000 0.000000 .000116 .000528 0.000000 0.000000  
INPUT  
VARIABLE  
.49217E+02  
.21635E+00  
0.

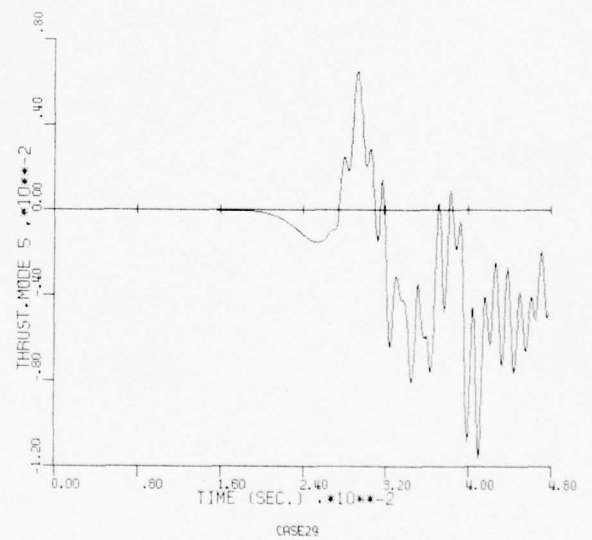
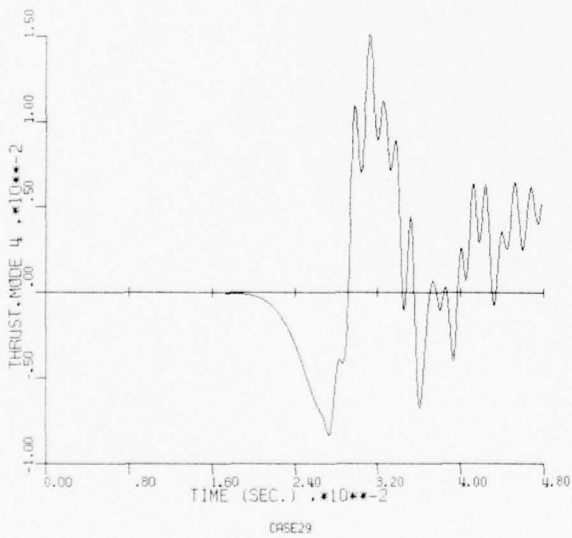
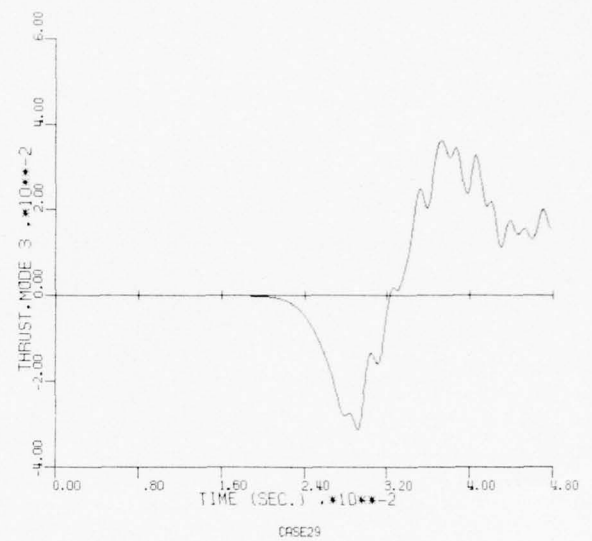
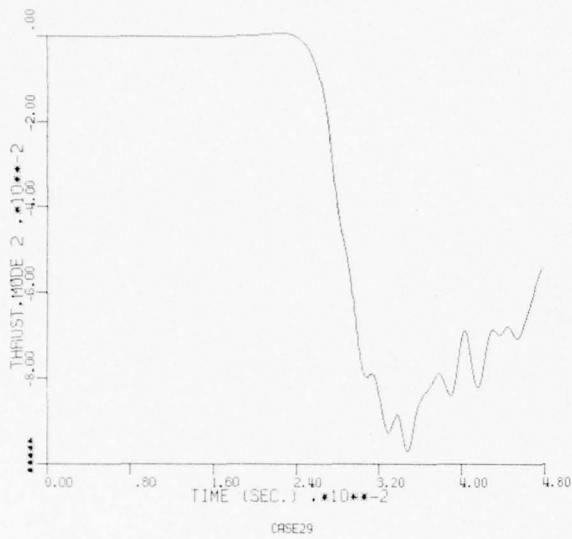
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODAL HISTORY/INPUT MODES 0=3 MODAL HISTORY/INPUT MODES 0=4 MODAL HISTORY/INPUT MODES 0=5 MODAL HISTORY/INPUT MODES 0=6  
SRSS .028842 .054219 .002077 .012874 .007977 .004277  
MIN 0.000000 .0000095 0.000000 .000000 .000000 .000000  
MAX 1.557787 1.728336 .867291 .875665 1.007206 1.014336  
INPUT  
VARIABLE  
.21479E+02  
0.  
.10436E+00

INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODAL HISTORY/INPUT MODES 0=3 MODAL HISTORY/INPUT MODES 0=4 MODAL HISTORY/INPUT MODES 0=5 MODAL HISTORY/INPUT MODES 0=6  
SRSS .078255 .078211 .016096 .009183 .006967 .001122  
MIN .000057 .000057 0.000000 .000118 .000003 0.000000  
MAX .000000 0.000000 .692466 .840693 .886230 .964454  
INPUT  
VARIABLE  
.38232E+04  
.43411E+25  
.17032E+02

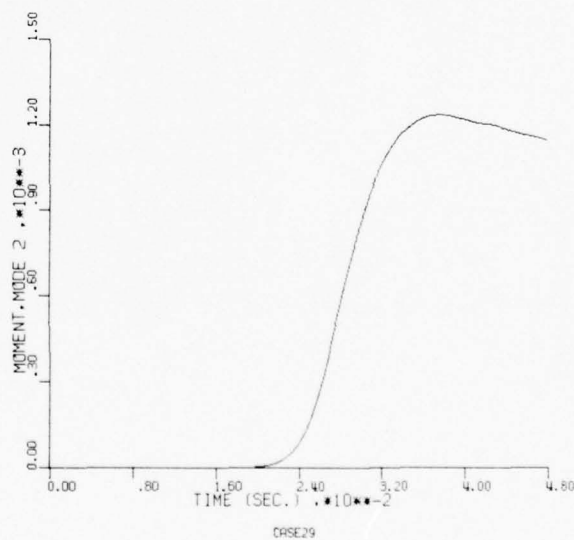
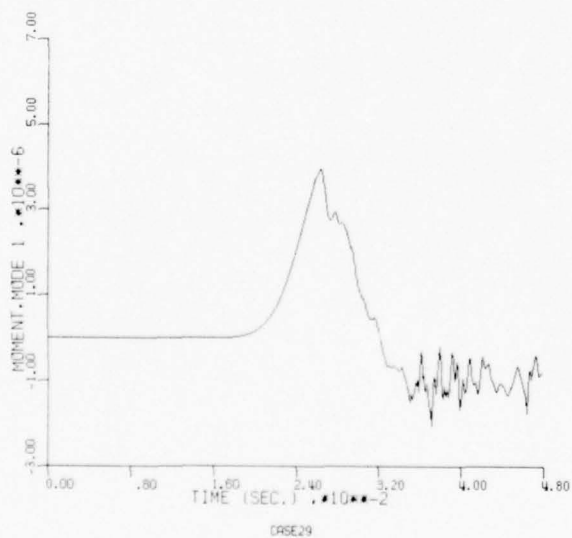
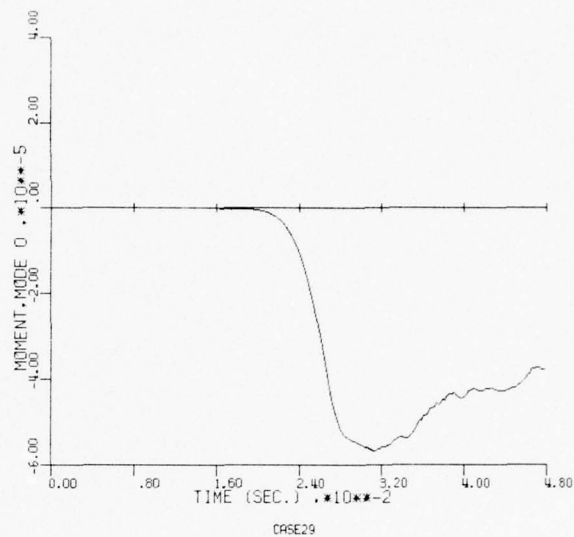
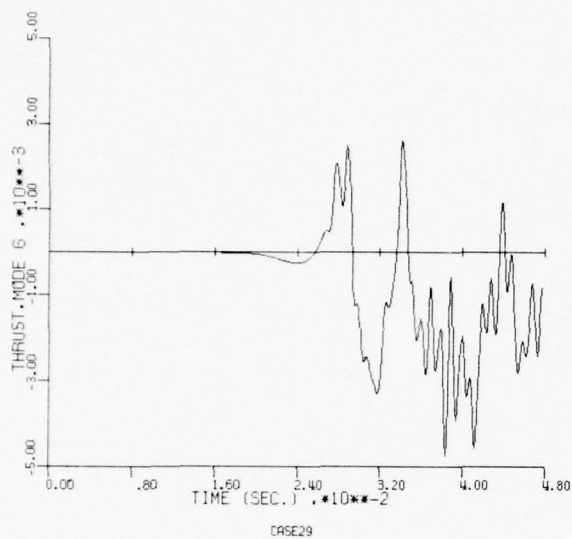
INVERT SSI STR=R  
\*\*\*\*\*  
MODE 0 MODES 0=1 MODAL HISTORY/INPUT MODES 0=2 MODAL HISTORY/INPUT MODES 0=3 MODAL HISTORY/INPUT MODES 0=4 MODAL HISTORY/INPUT MODES 0=5 MODAL HISTORY/INPUT MODES 0=6  
SRSS .018385 .004847 .008410 .001243 .002545 .006513  
MIN .944255 1.004482 .834158 .863796 .905754 1.007201  
MAX 0.000000 .015131 0.000000 .002998 0.000000 .000111  
INPUT  
VARIABLE  
.36444E+02  
.16332E+00  
0.

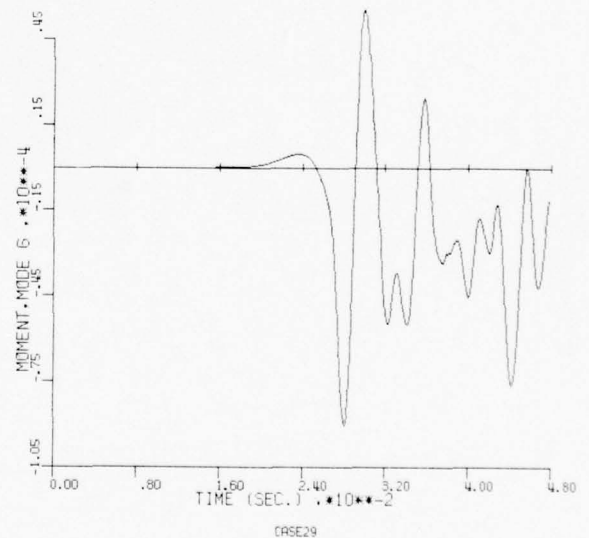
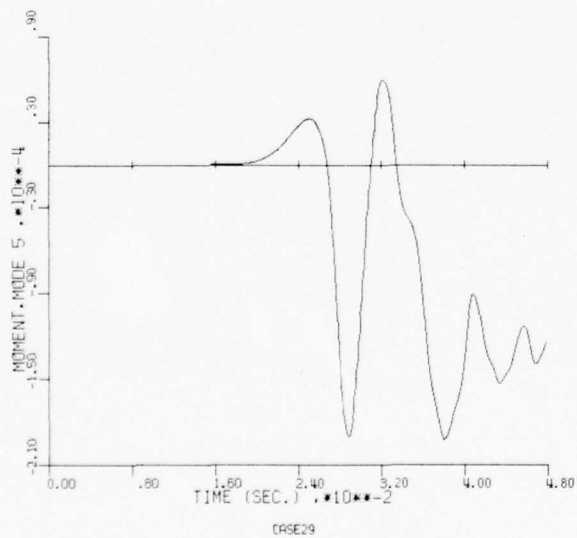
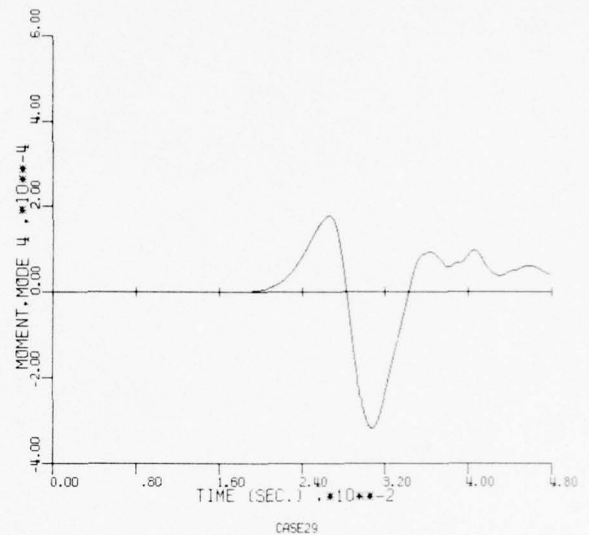
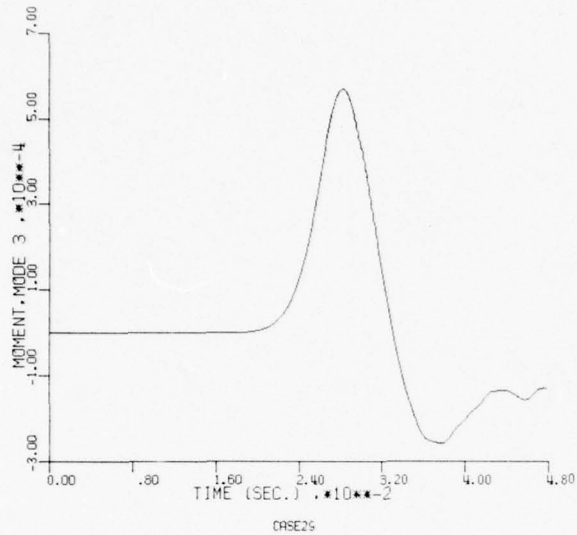


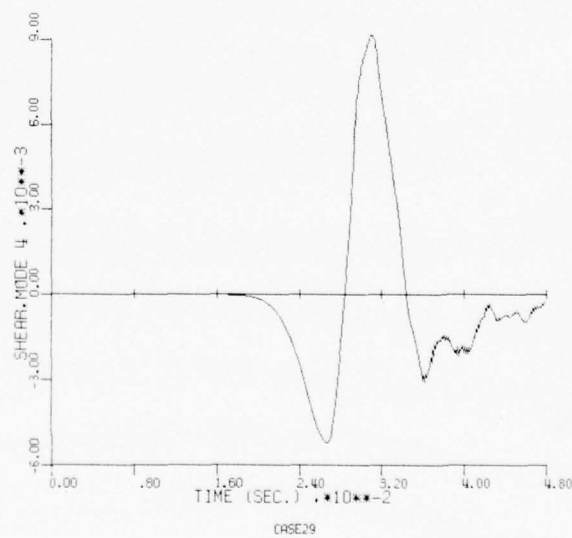
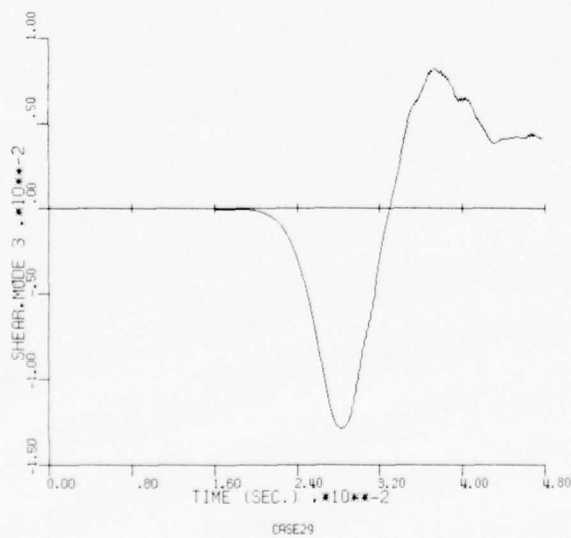
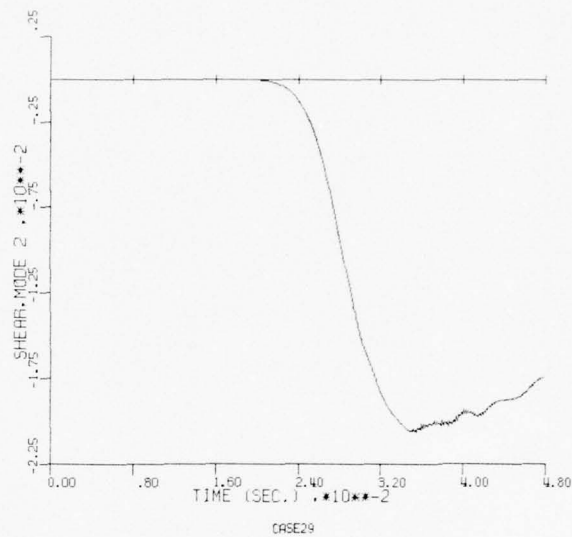
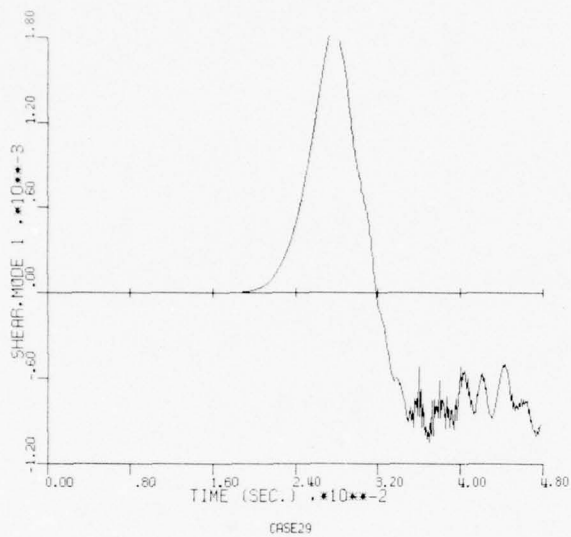


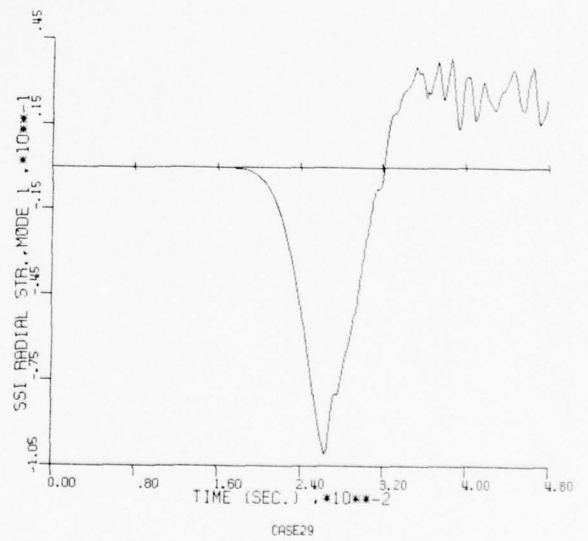
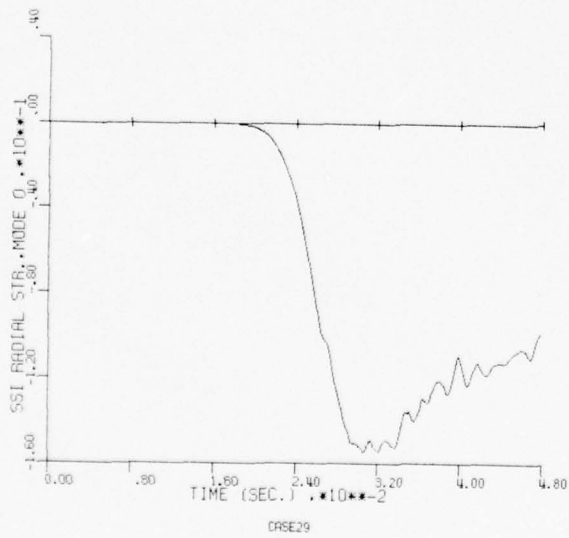
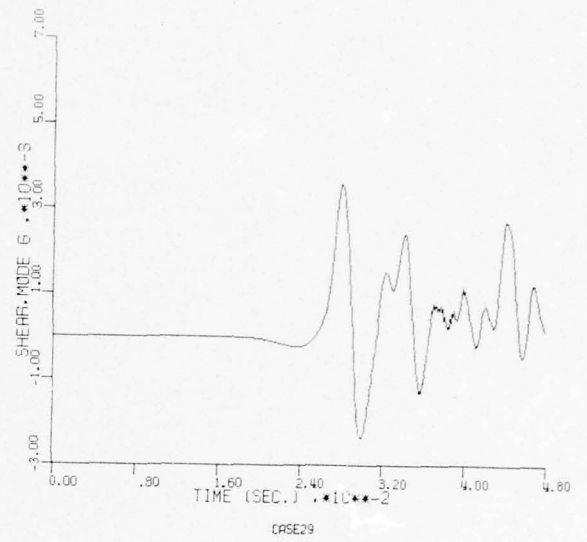
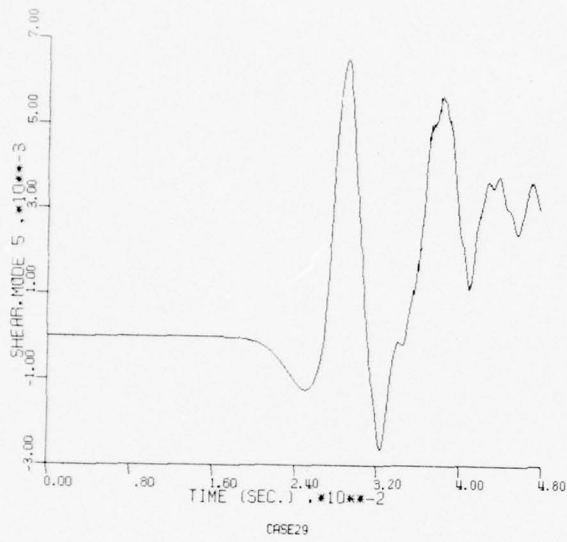


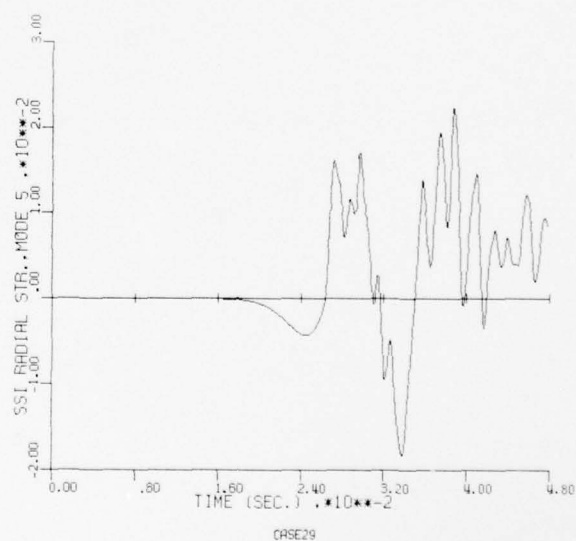
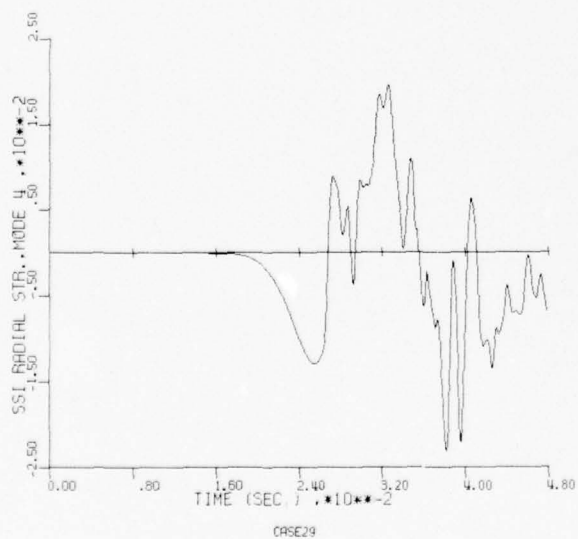
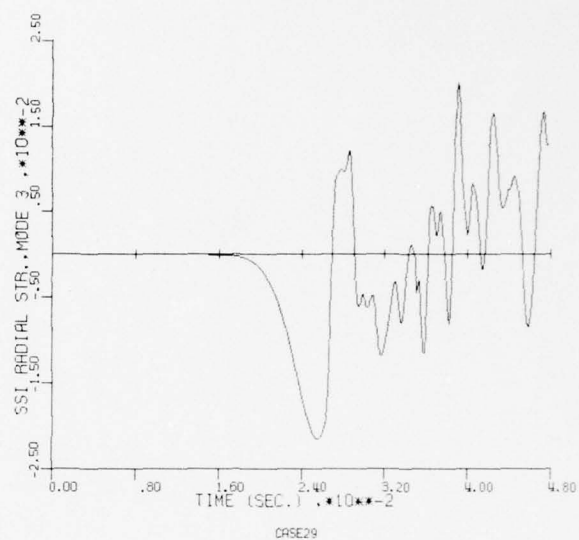
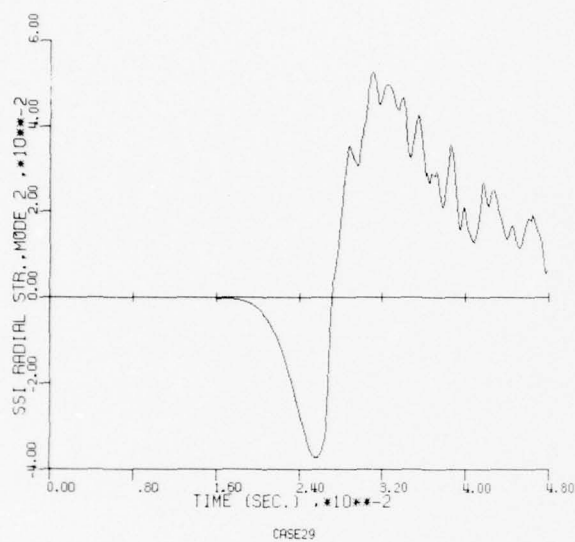




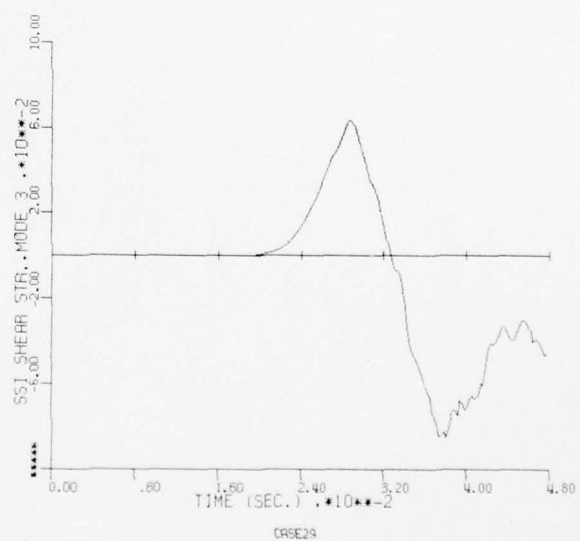
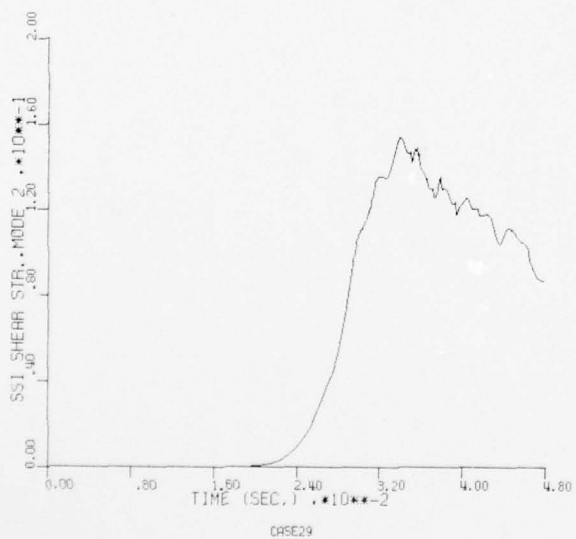
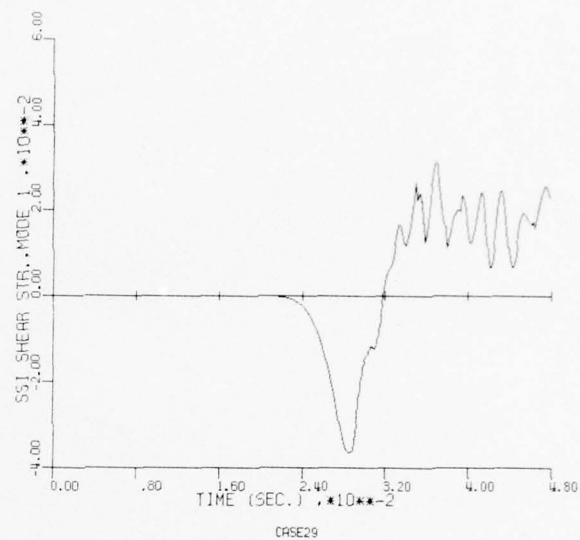
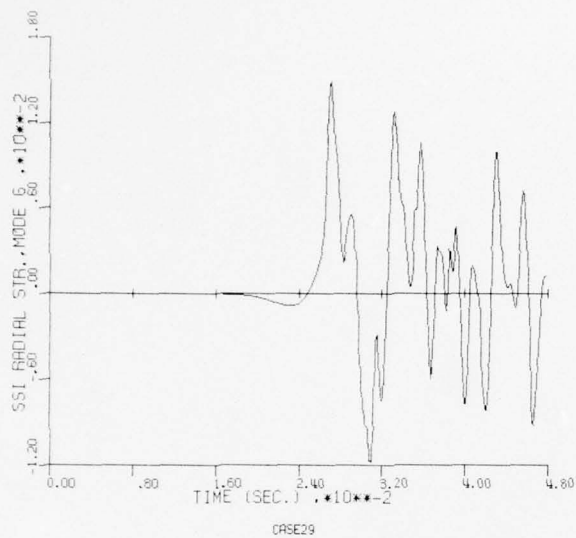


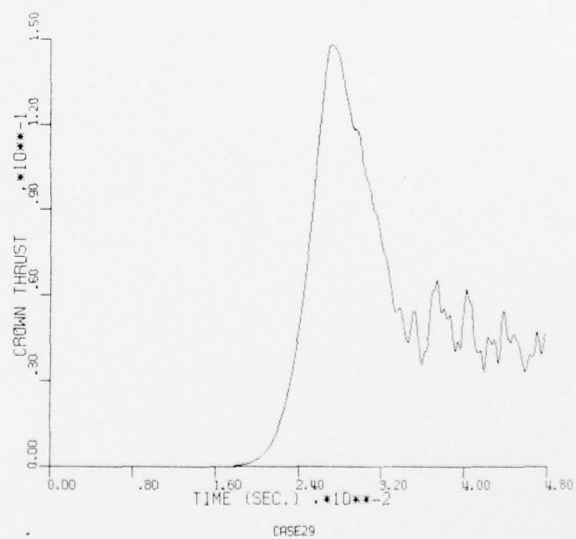
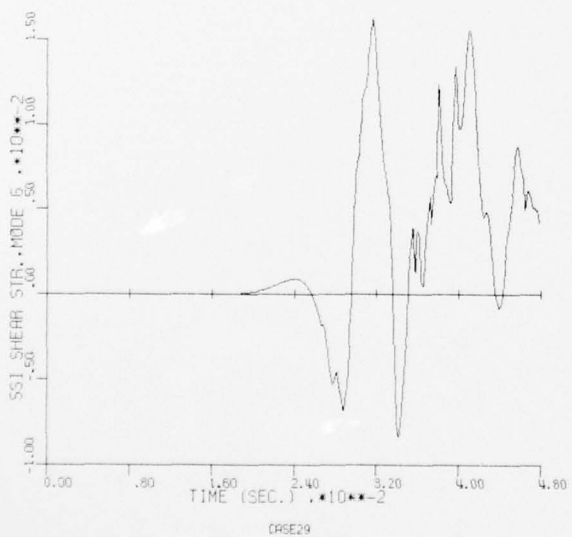
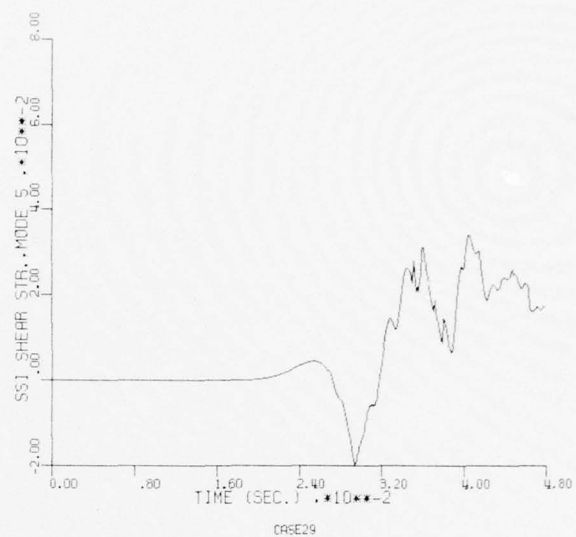
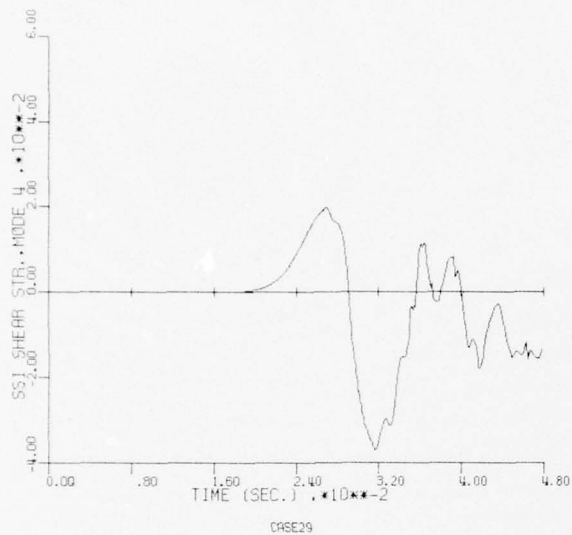


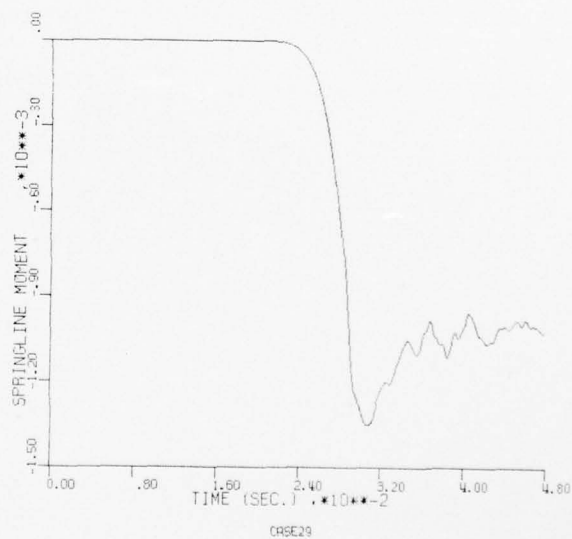
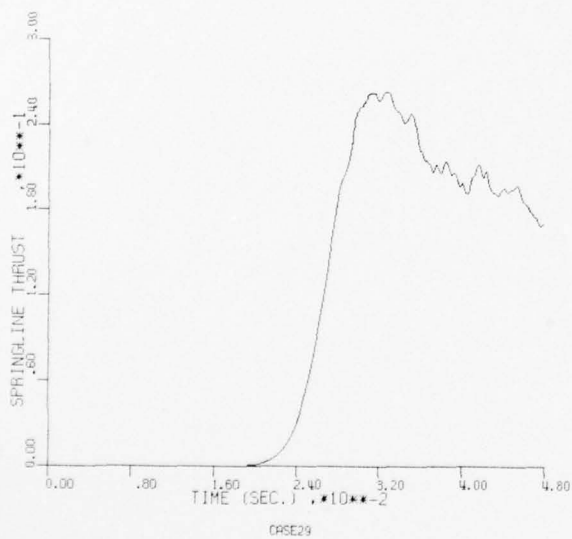
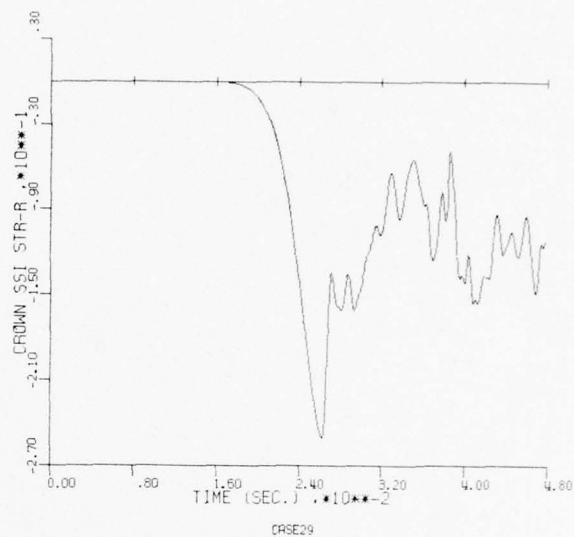
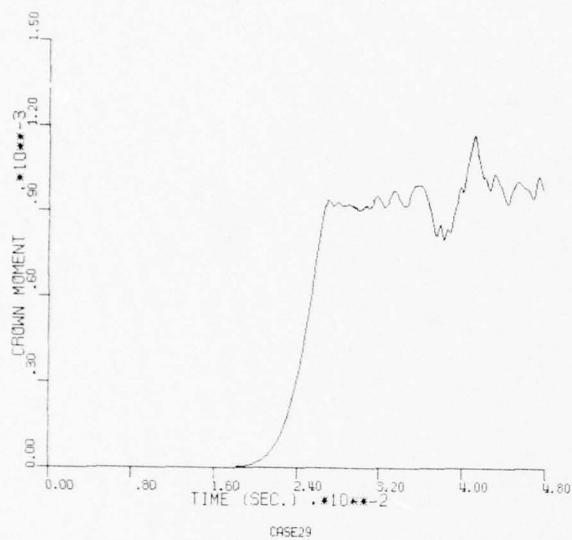


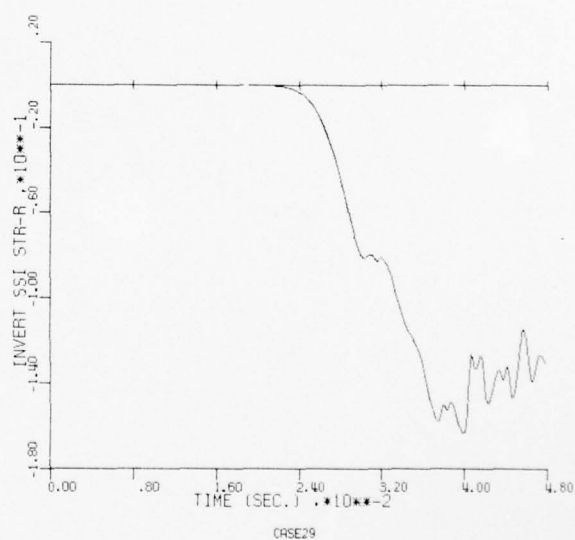
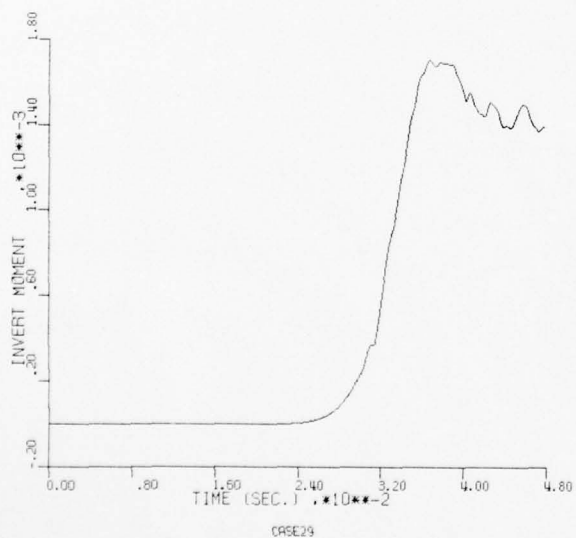
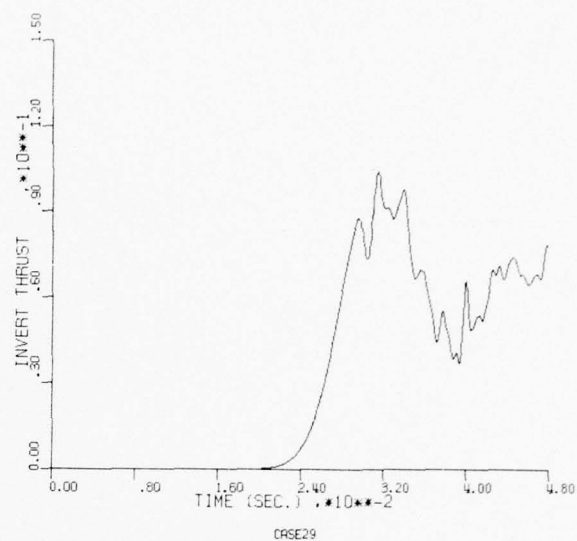
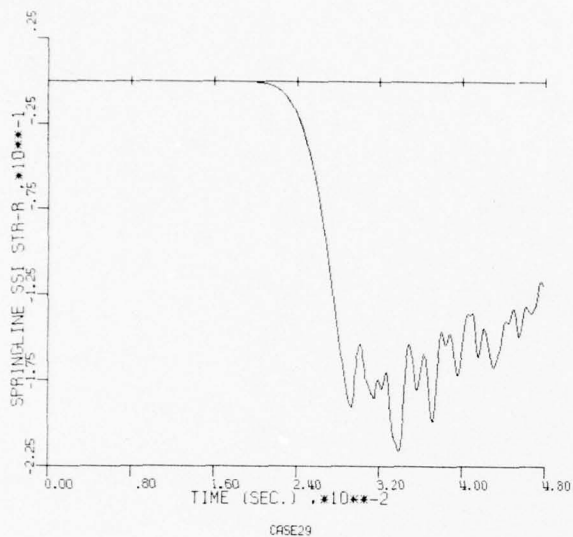












CASE30

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## MIN.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.006486	-.246897	-.125160	-.013394
	2	0.000000	0.000000	-.009157	-.245349	-.118018	0.000000
	3	0.000000	0.000000	-.016113	-.228403	-.130486	0.000000
	4	0.000000	-.0000095	-.022602	-.216103	-.115599	0.000000
	5	0.000000	-.0002006	-.025618	-.209619	-.116185	0.000000
	6	0.000000	-.0004888	-.026504	-.209778	-.119577	0.000000
	7	0.000000	-.0007764	-.025364	-.220952	-.118738	0.000000
	8	0.000000	-.0010178	-.031109	-.207933	-.128521	-.004884
	9	0.000000	-.0011830	-.026095	-.206621	-.115258	-.026352
	10	0.000000	-.0013559	-.021871	-.205347	-.137815	-.062675
SPR	11	0.000000	-.0013467	-.012826	-.192708	-.126342	-.082581
	12	0.000000	-.0013349	-.011912	-.209249	-.141847	-.107639
	13	0.000000	-.0013307	-.000369	-.204064	-.124202	-.125444
	14	0.000000	-.0012016	-.007218	-.226598	-.116920	-.137924
	15	0.000000	-.0012038	-.000000	-.230370	-.144368	-.153946
	16	0.000000	-.0010792	-.000000	-.204353	-.122440	-.151807
	17	0.000000	-.0009082	-.000000	-.209305	-.114570	-.152691
	18	0.000000	-.0006423	-.000001	-.203455	-.083767	-.150275
	19	0.000000	-.0002545	-.003126	-.200133	-.102491	-.162770
	20	0.000000	-.0000000	-.004143	-.181952	-.087349	-.147945
INV	21	0.000000	-.0000000	-.006475	-.163673	-.085105	-.150231
	22	0.000000	-.0000000	-.007213	-.152694	-.076180	-.128698
	23	0.000000	-.0000000	-.004194	-.166704	-.080749	-.094468
INV	24	0.000000	-.0000000	-.002786	-.150153	-.089408	-.046644

## MAX.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.132373	.0008648	.003933	0.000000	.029366	.040388
	2	.138785	.0008374	.006431	0.000000	.026715	.076677
	3	.150515	.0008550	0.000000	0.000000	.008779	.107067
	4	.164933	.0008210	0.000000	0.000000	.018130	.110600
	5	.182998	.0007053	.000000	0.000000	0.000000	.142926
	6	.198381	.0005246	.000000	0.000000	0.000000	.119492
	7	.213214	.0001734	.000994	0.000000	0.000000	.146804
	8	.235231	.0000000	.003061	0.000000	.002762	.131709
	9	.246556	.0000000	.009078	0.000000	0.000000	.140632
	10	.254643	.0000000	.014402	0.000000	0.000000	.142741
SPR	11	.271734	.0000000	.020899	0.000000	0.000000	.143178
	12	.264649	.0000001	.024492	0.000000	0.000000	.096563
	13	.262675	.0000111	.025241	0.000000	0.000000	.157732
	14	.268024	.0000614	.024829	0.000000	0.000000	.000000
	15	.253274	.0001454	.026534	0.000000	0.000000	.000000
	16	.237721	.0003074	.029588	0.000000	0.000000	.000000
	17	.216312	.0004073	.028107	0.000000	0.000000	.000000
	18	.193761	.0005072	.025873	0.000000	0.000000	.000000
	19	.161930	.0005449	.028934	0.000000	0.000000	.000000
	20	.138824	.0006548	.032162	0.000000	0.000000	.000000
INV	21	.115086	.0008261	.026080	0.000000	0.000000	.000000
	22	.106368	.0011734	.022130	0.000000	0.000000	.000000
	23	.100486	.0014313	.016427	0.000000	0.000000	.000000
INV	24	.100764	.0015482	.003698	0.000000	0.000000	.000000



MIN-MAX MODAL AMPLITUDES -- CASE30

LINER THRUST PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.		-.26413E-01	-.93407E-01	-.33927E-01	-.10270E-01	-.76571E-02	-.47336E-02
MAX	.16706E+00	.71038E-01	.22989E-02	.24895E-01	.10176E-01	.46732E-02	.22214E-02

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.58311E-04	-.15596E-05	0.	-.28718E-03	-.36150E-03	-.23317E-03	-.12053E-03
MAX	.27133E-15	.37865E-05	.12459E-02	.54984E-03	.21929E-03	.60177E-04	.20057E-04

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.		-.90184E-03	-.20595E-01	-.12838E-01	-.63950E-02	-.22145E-02	-.11760E-02
MAX 0.		.16445E-02	0.	.72327E-02	.97819E-02	.76423E-02	.43805E-02

SSI RADIAL STR. PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.15908E+00	-.96239E-01	-.18526E-01	-.27917E-01	-.16498E-01	-.12044E-01	-.12513E-01
MAX 0.		.36394E-01	.51840E-01	.17653E-01	.26723E-01	.29978E-01	.15762E-01

SSI SHEAR STR. PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.		-.36711E-01	0.	-.51831E-01	-.28476E-01	-.14186E-01	-.54042E-02
MAX 0.		.25065E-01	.14748E+00	.62093E-01	.25564E-01	.27047E-01	.23359E-01

CASE30

CROWN THRUST

CROWN THRUST		MODAL HISTORY/INPUT		VARIABLE		MODES		INPUT
MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	MODES 0-4	MODES 0-5	MODES 0-6		VARIABLE
SRSS	.038763	.007913	.000602	.002765	.001766	.003492		.24631E-02
MIN.	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		0.
MAX.	1.262036	1.226892	1.053822	.989419	.993483	1.005107		.13237E+00

CROWN MOMENT

CROWN MOMENT		MODAL HISTORY/INPUT		VARIABLE		MODES		INPUT
MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	MODES 0-4	MODES 0-5	MODES 0-6		VARIABLE
SRSS	.058014	.036252	.016106	.016477	.005809	.001481		.25292E-04
MIN.	-.000058	0.000000	0.000000	0.000000	0.000000	0.000000		0.
MAX.	.000000	1.373273	1.341393	1.200106	1.058999	.968939		.86479E-03

CROWN SSI SIR-R

CROWN SSI SIR-R		MODAL HISTORY/INPUT		VARIABLE		MODES		INPUT
MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	MODES 0-4	MODES 0-5	MODES 0-6		VARIABLE
SRSS	.017114	.004073	.002680	.002583	.007119	.009609		.38435E-02
MIN.	.644335	.868825	.967693	1.020402	1.036323	1.029612		-.24690E+00
MAX.	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000		0.

SPRINGLINE THRUST

SPRINGLINE THRUST		MODAL HISTORY/INPUT		VARIABLE		MODES		INPUT
MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	MODES 0-4	MODES 0-5	MODES 0-6		VARIABLE
SRSS	.012225	.001020	.000376	.001198	.000613	.001270		.64770E-02
MIN.	0.000000	-.000000	-.000000	-.000000	-.000000	0.000000		0.
MAX.	.631247	.946232	.956636	.992849	.993301	1.006059		.26465E+00

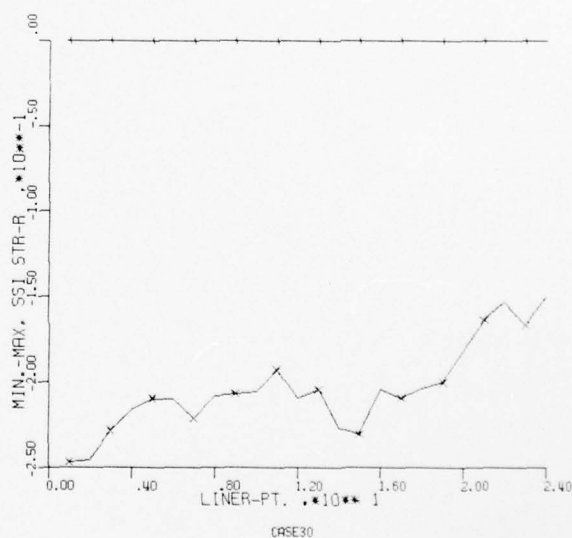
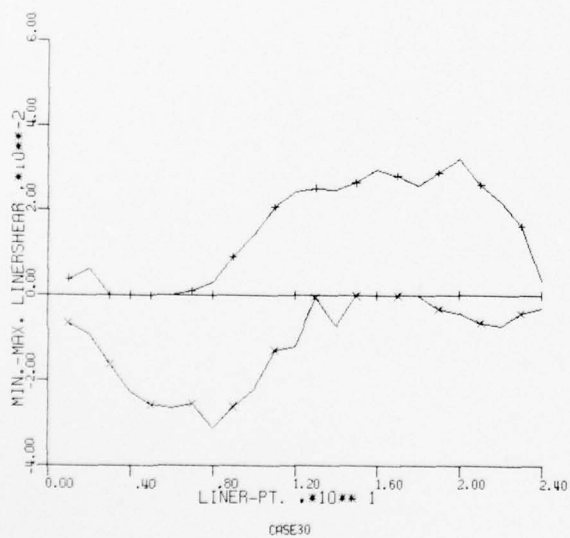
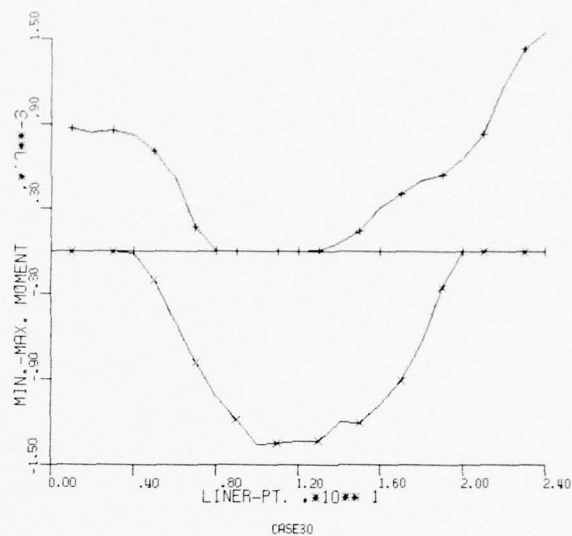
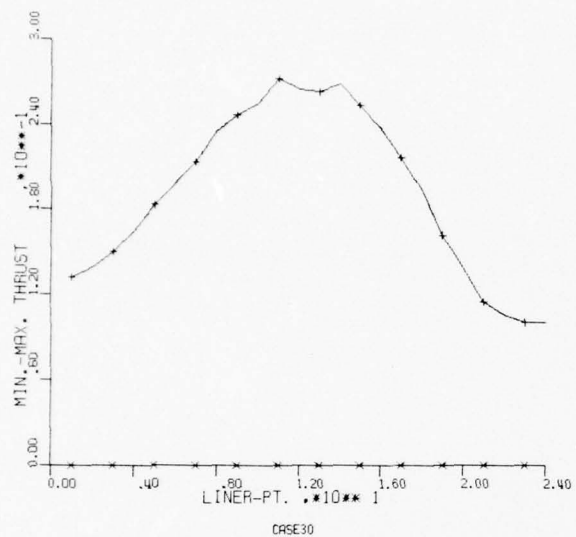
SPRINGLINE MOMENT  
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MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .060668 .003482 .000757 .000505 .002967 .001991  
MIN. .043680 .073656 .918126 1.042491 1.039628 1.021220  
MAX. .000000 .000000 0.000000 .000001 .000006 .000000  
INPUT  
VARIABLE  
.37192E-04  
-.13349E-02  
.98867E-07

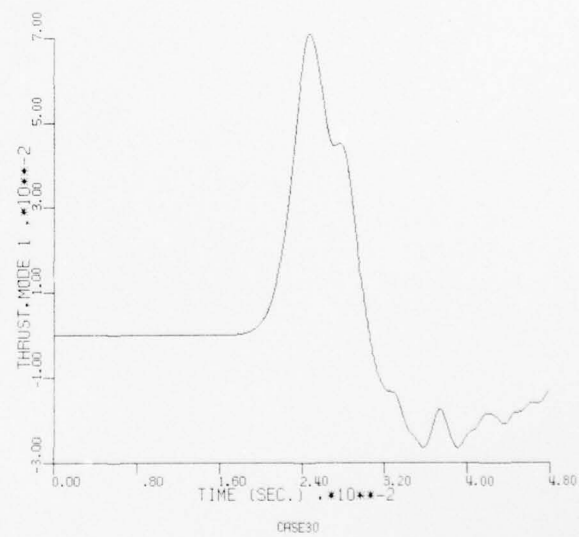
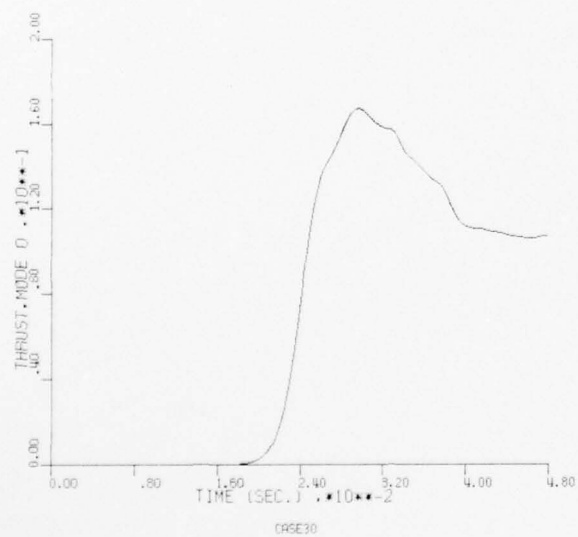
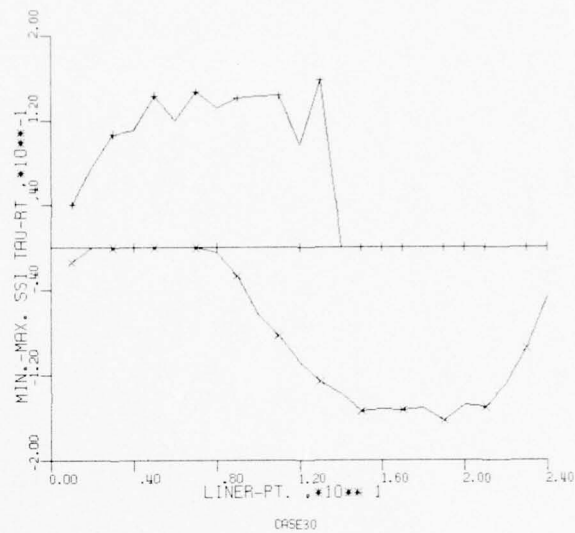
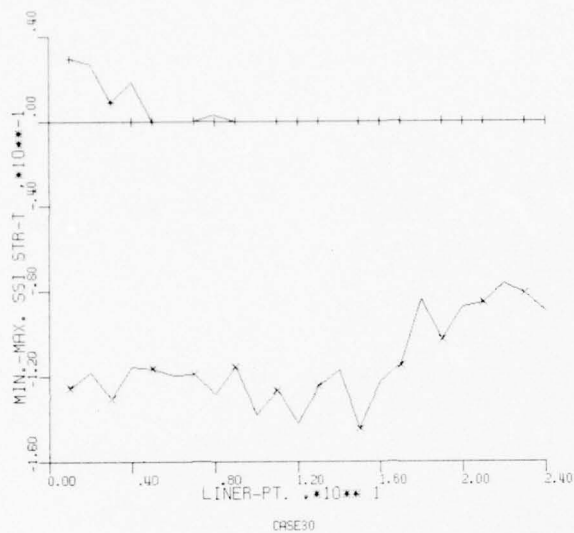
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .007300 .004860 .004110 .004266 .006915 .004913  
MIN. .760266 .760028 .980404 .953290 .971415 .995110  
MAX. 0.000000 0.000000 .000650 .000000 0.000000 0.000000  
INPUT  
VARIABLE  
.47789E-02  
-.20925E+00  
0.

INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .037468 .007125 .006647 .003047 .000585 .002608  
MIN. 0.000000 -.000526 0.000000 -.000000 -.000000 -.000000  
MAX. 1.657921 1.694892 .863752 .908731 1.002464 1.005412 .994945  
INPUT  
VARIABLE  
.21637E-02  
0.  
.10076E+00

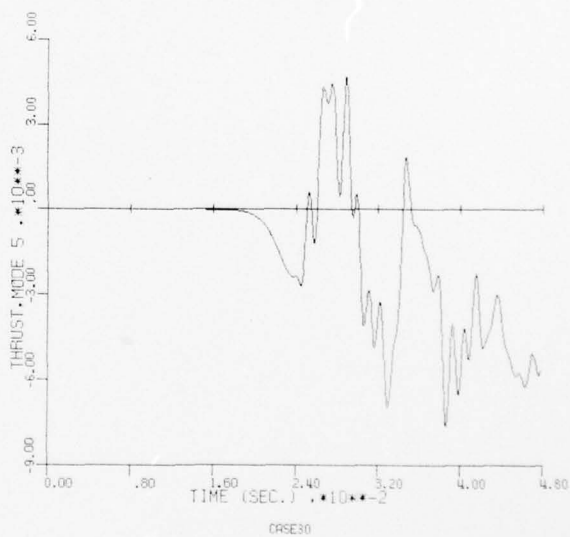
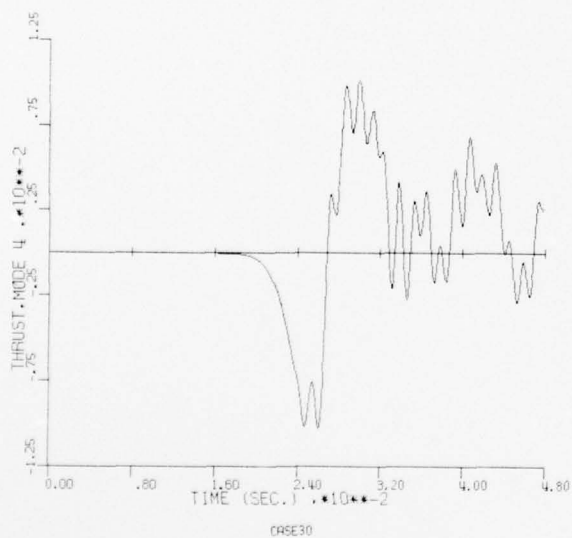
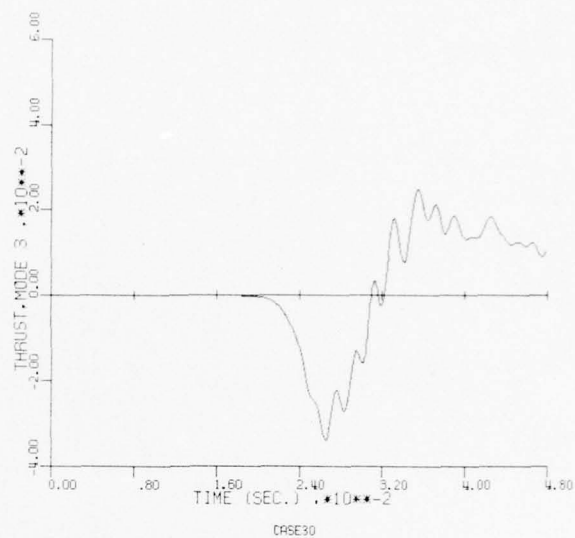
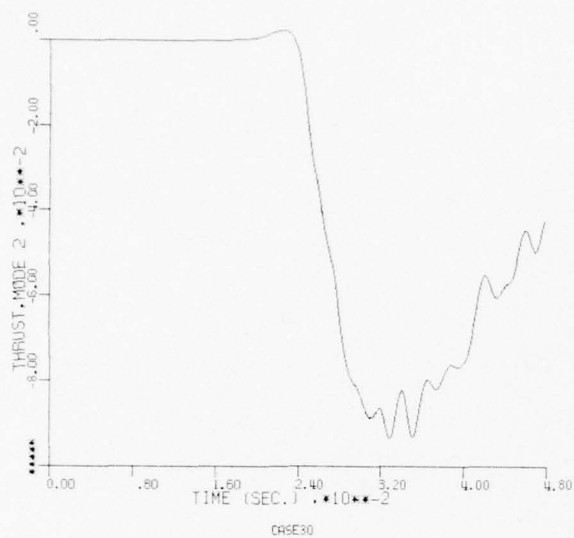
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .076859 .076818 .014385 .001051 .000805 .001430  
MIN. -.000058 -.000059 0.000000 -.000156 -.000083 -.000005  
MAX. .000000 0.000000 .768775 .950457 .970978 1.063307 1.029970  
INPUT  
VARIABLE  
.38213E-04  
-.46347E-25  
.15482E-02

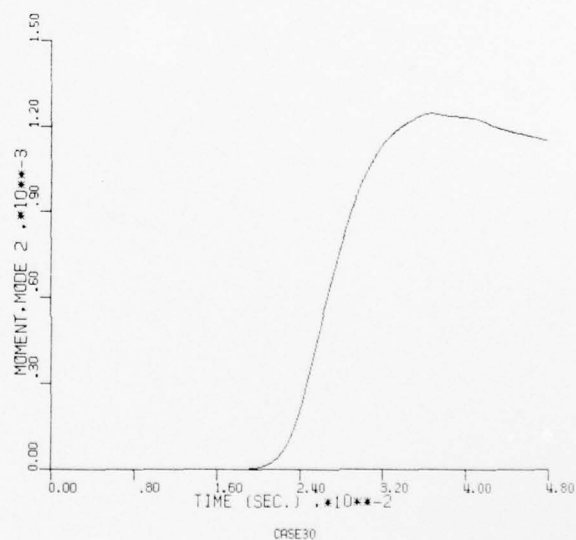
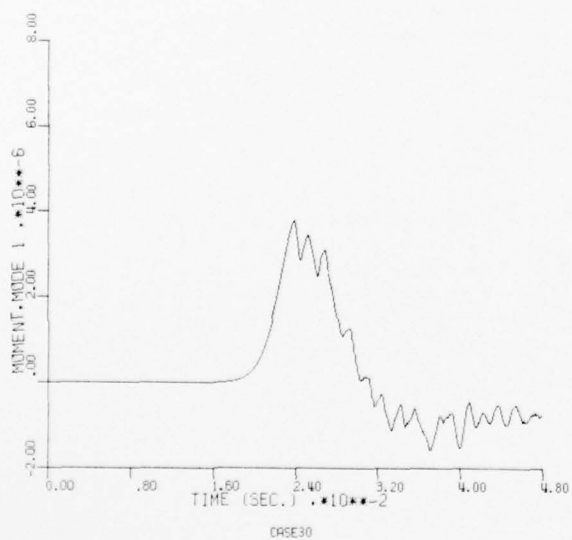
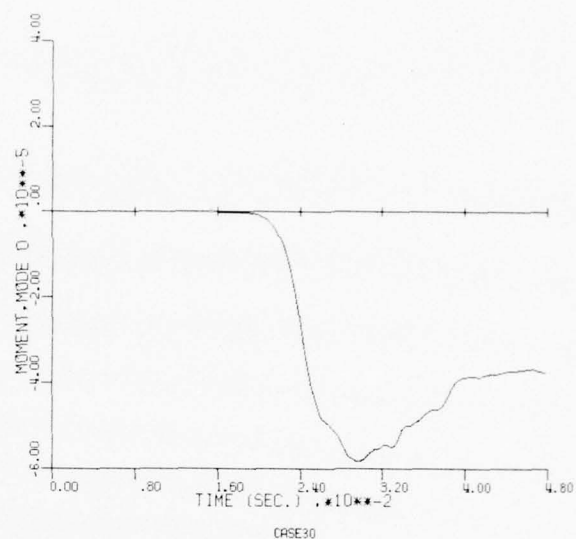
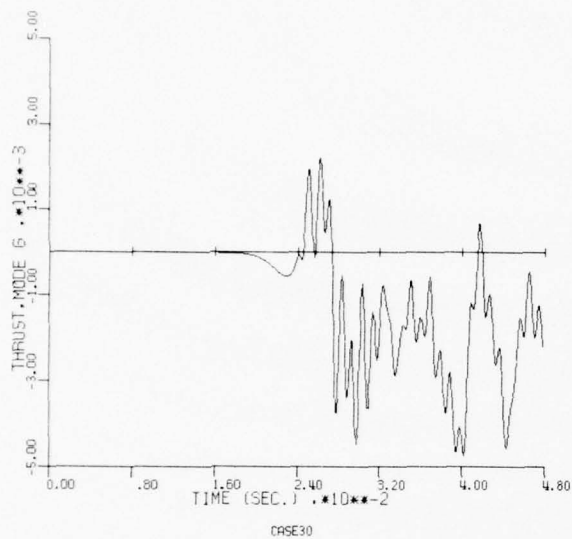
INVERT SSI STR-R  
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MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .012007 .001517 .002135 .000594 .000702 .010031 .007277  
MIN. 1.059482 1.129298 .938443 .993011 1.013555 1.125494 1.113086  
MAX. 0.000000 .025852 0.000000 .006987 0.000000 .000573 0.000000  
INPUT  
VARIABLE  
.34741E-02  
-.15015E+00  
0.

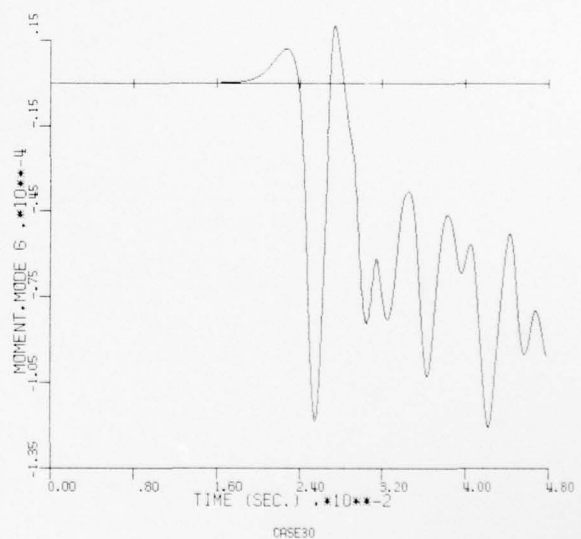
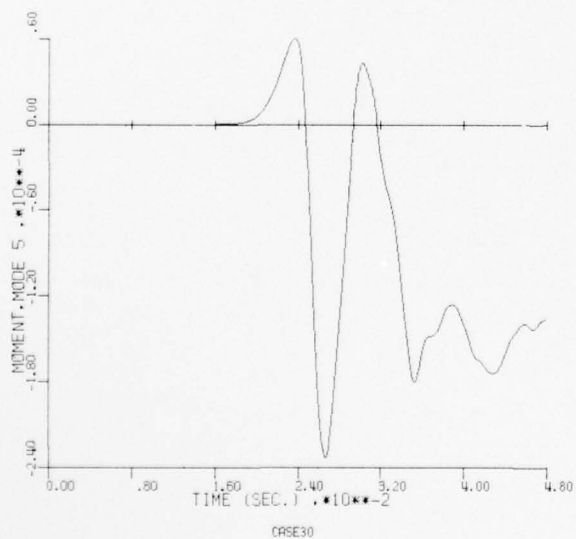
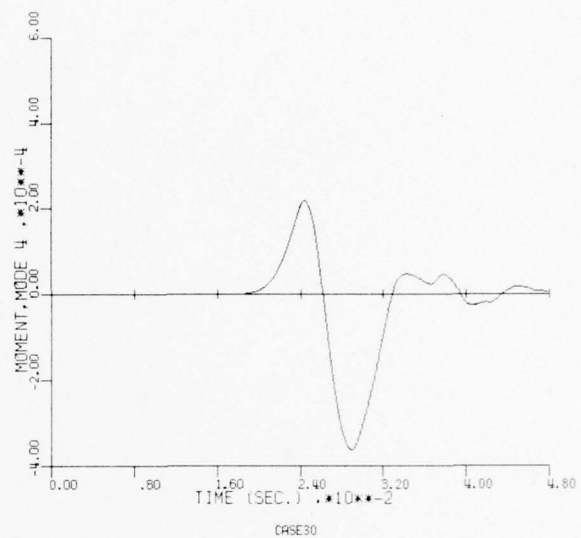
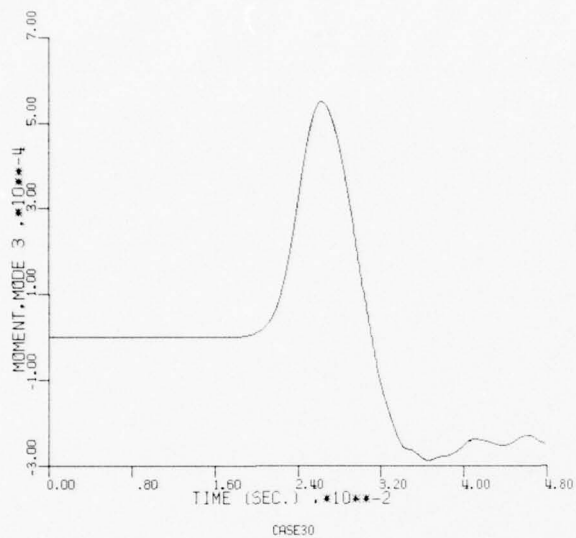


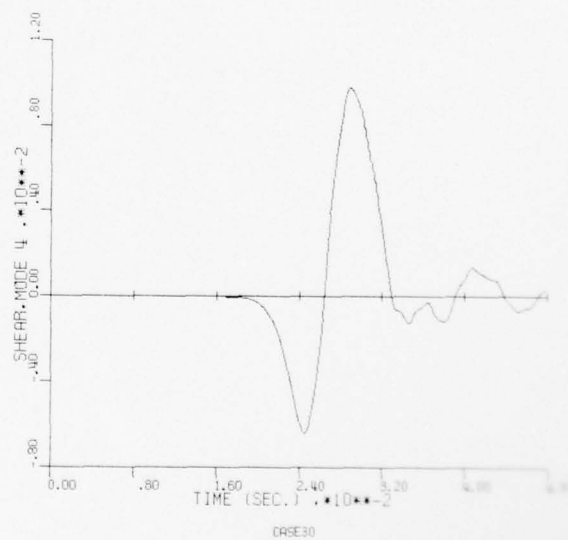
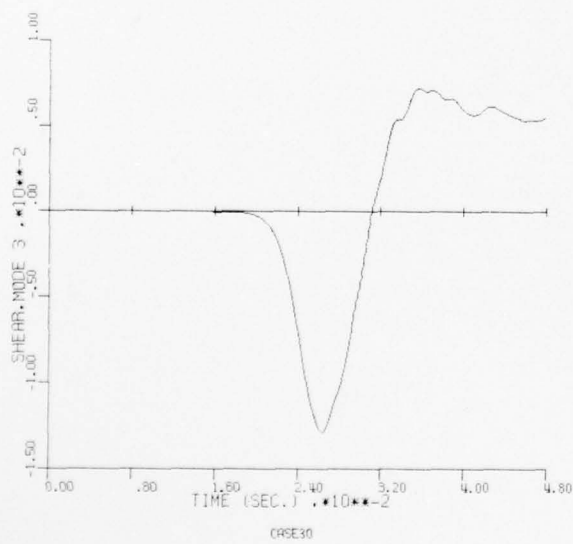
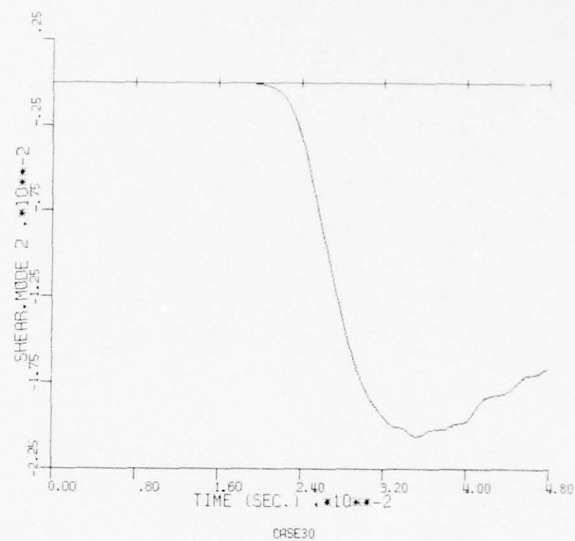
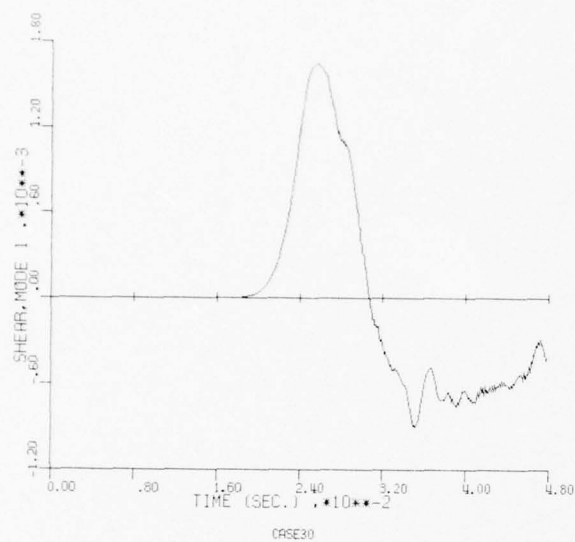












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IIT RESEARCH INST CHICAGO ILL

F/G 18/3

THEORETICAL INVESTIGATION OF LOADS ON BURIED STRUCTURES. VOLUME--ETC(U)

AUG 78 R R ROBINSON

F29601-76-C-0124

UNCLASSIFIED

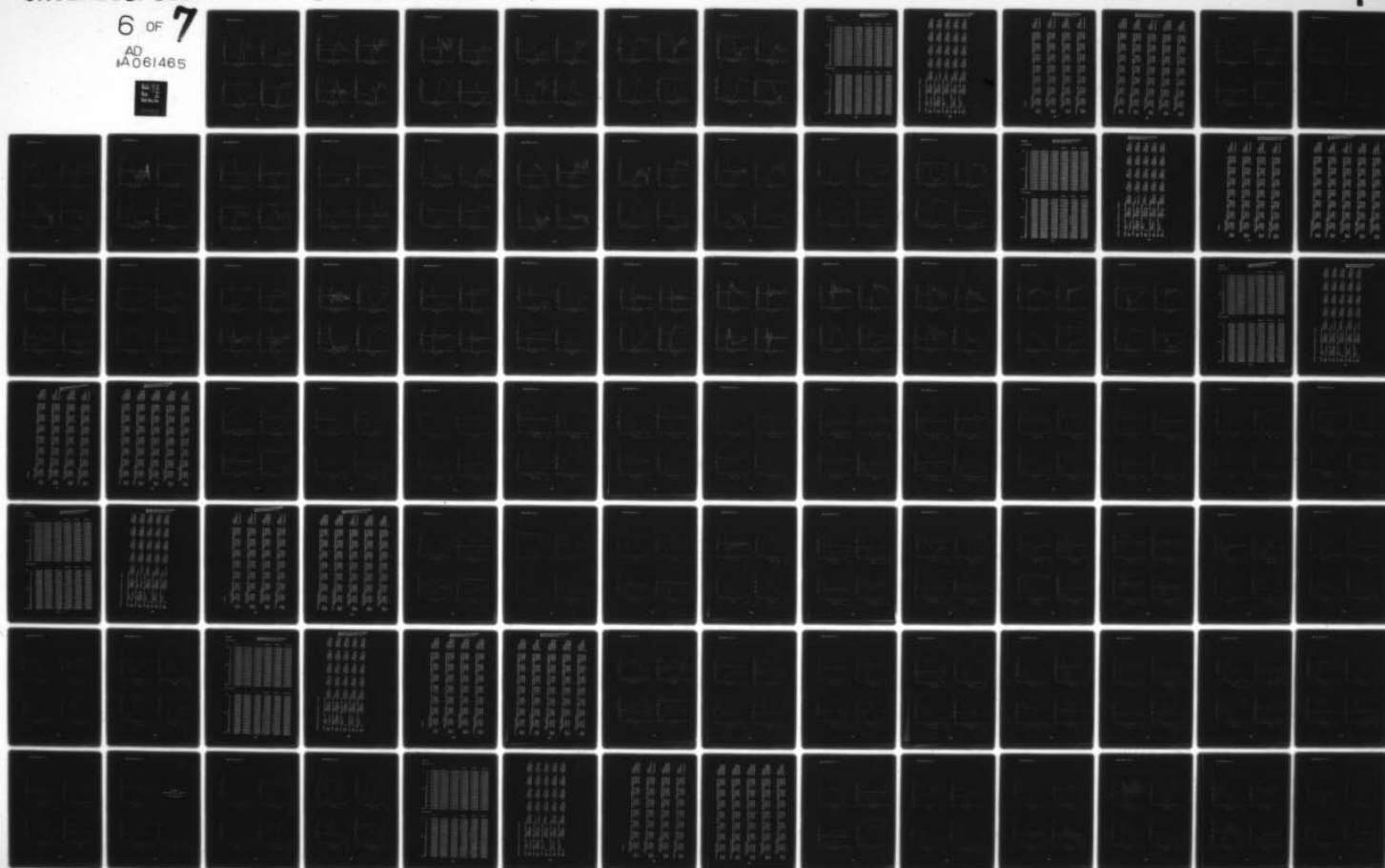
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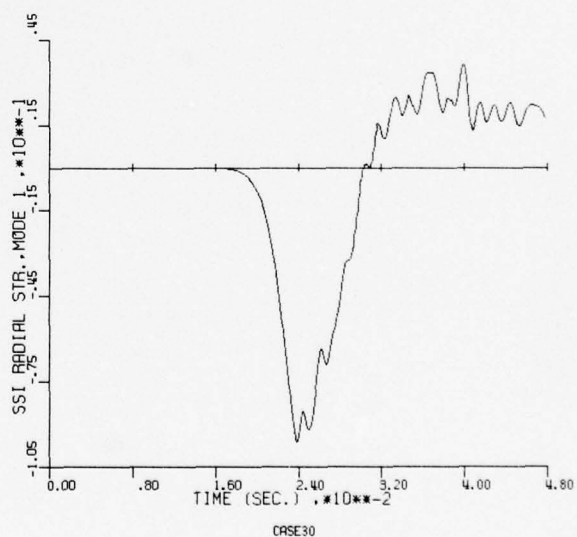
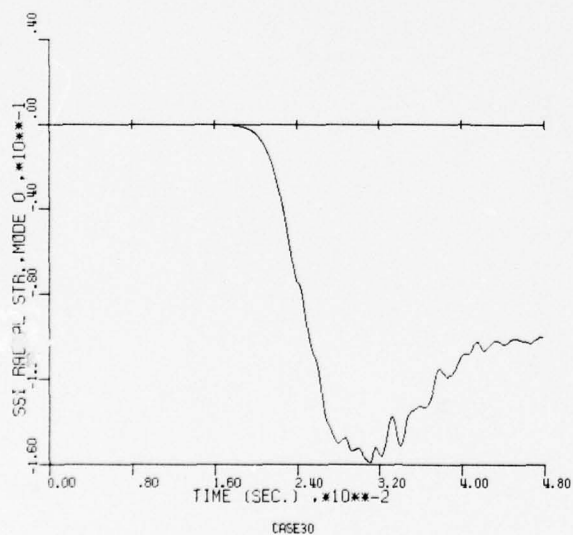
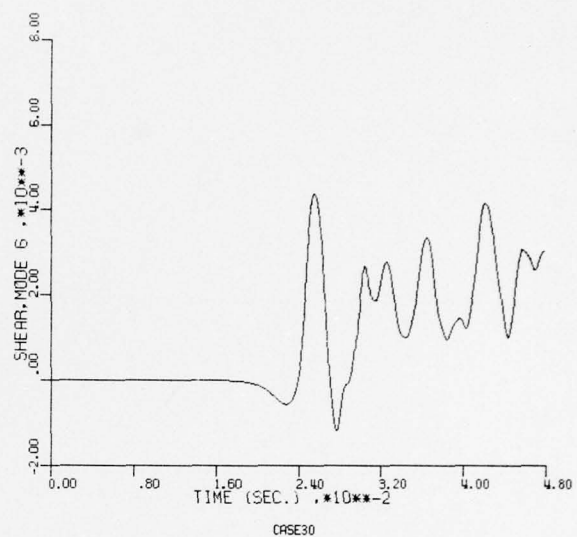
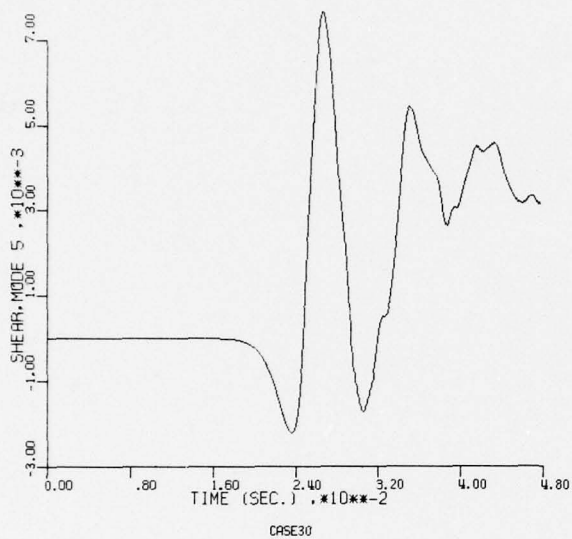
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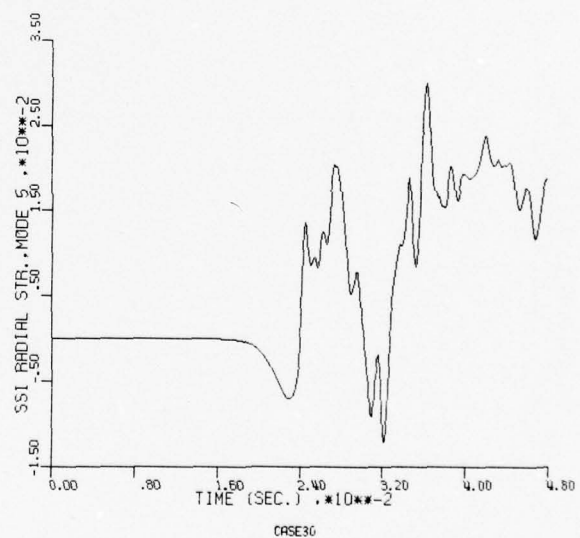
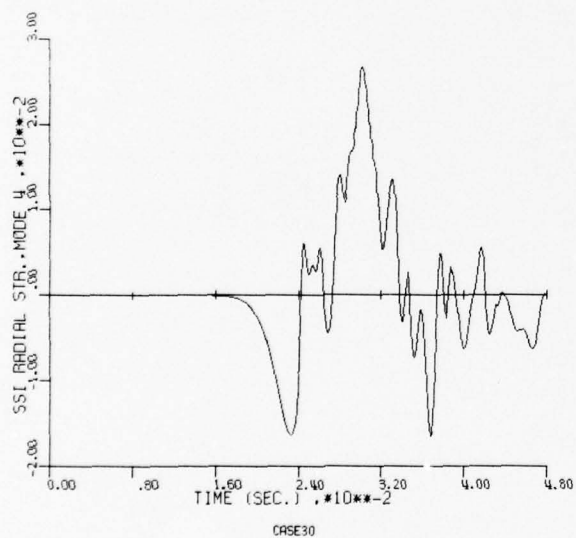
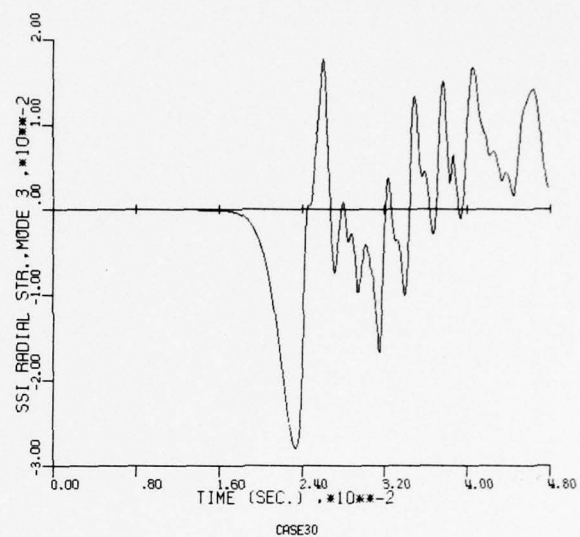
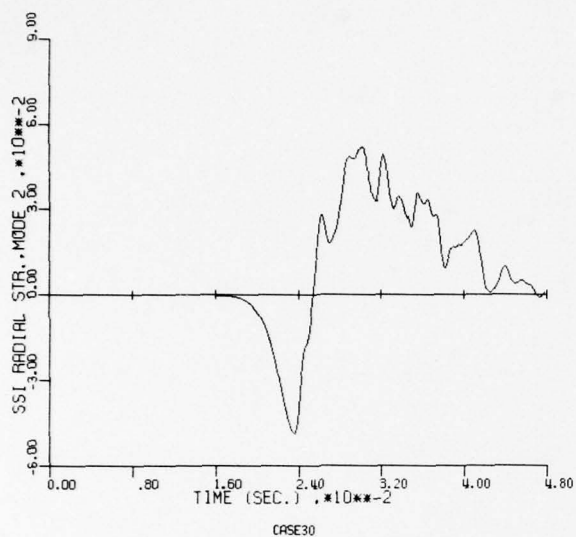
6 OF 7

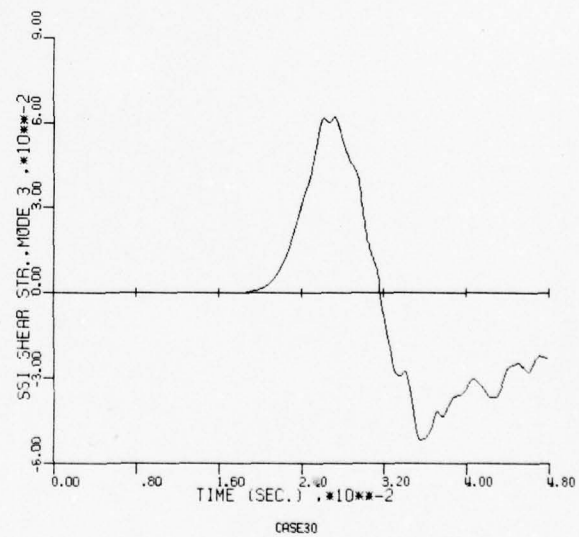
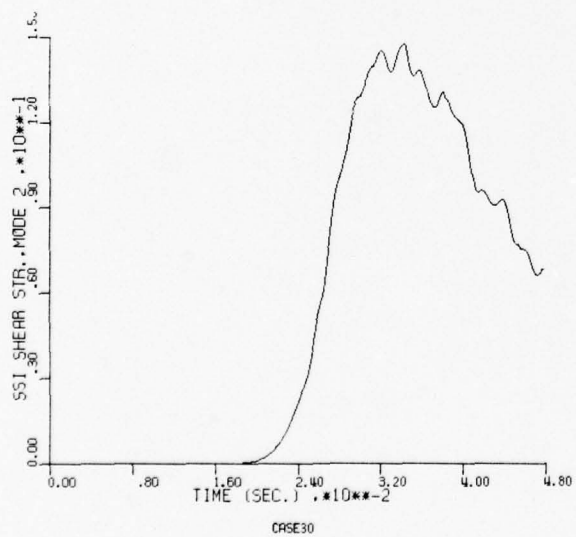
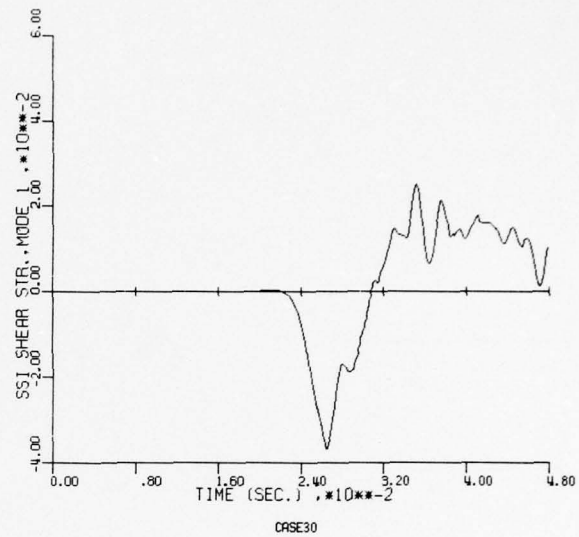
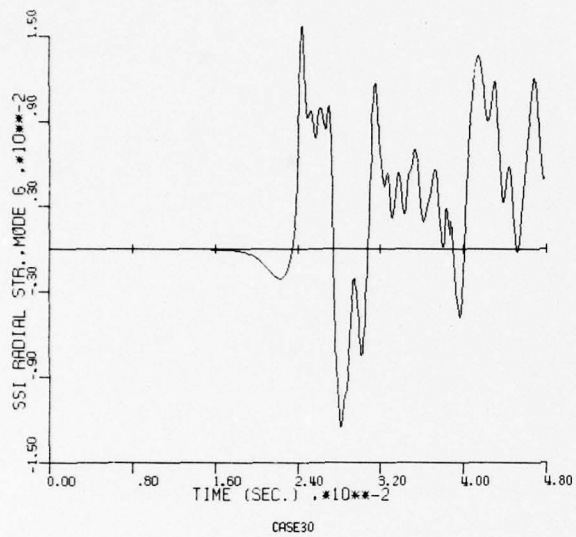
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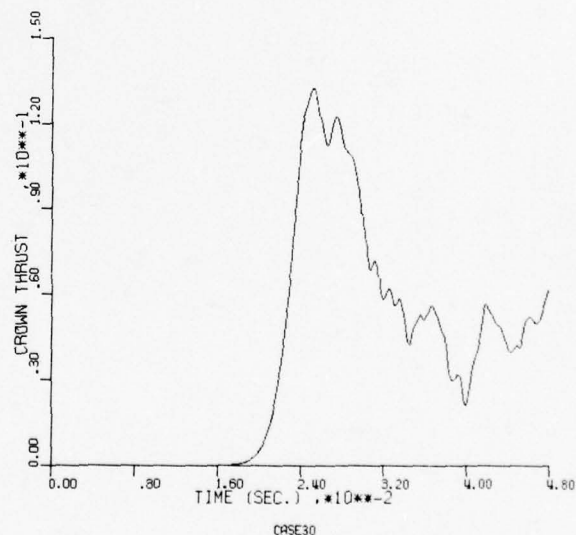
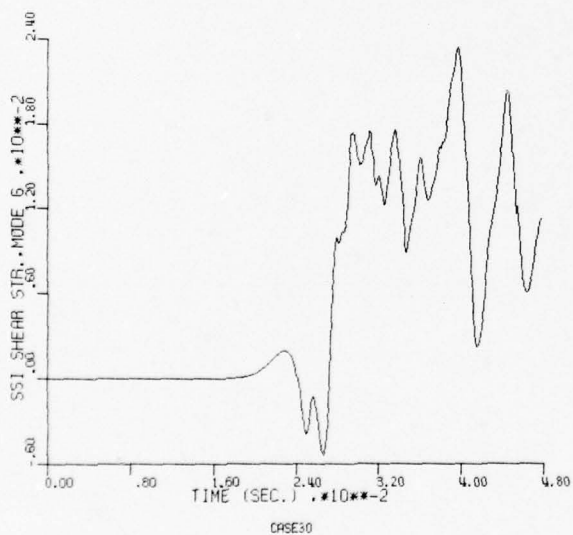
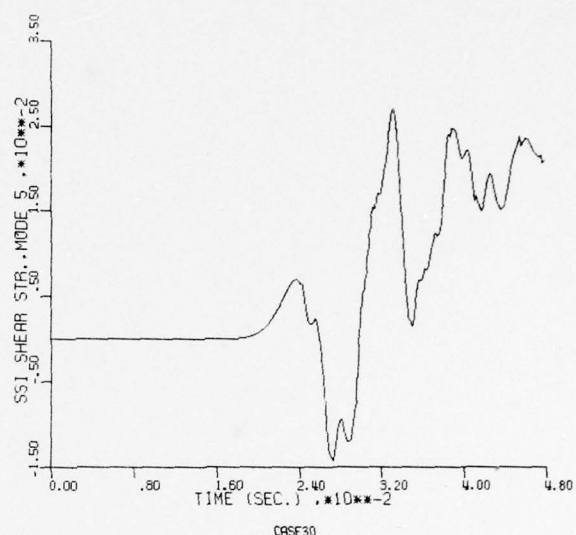
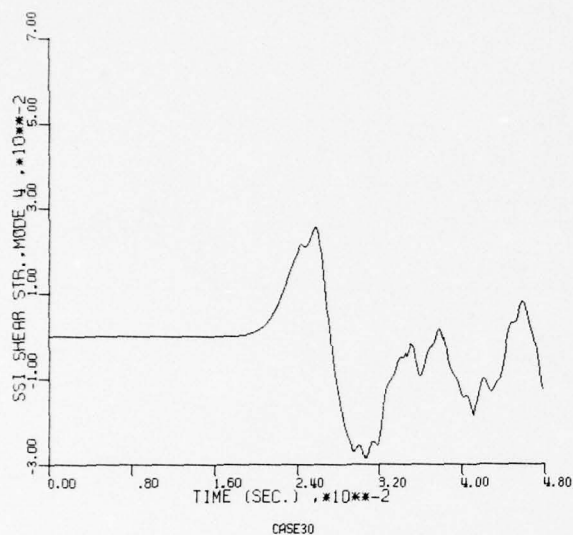


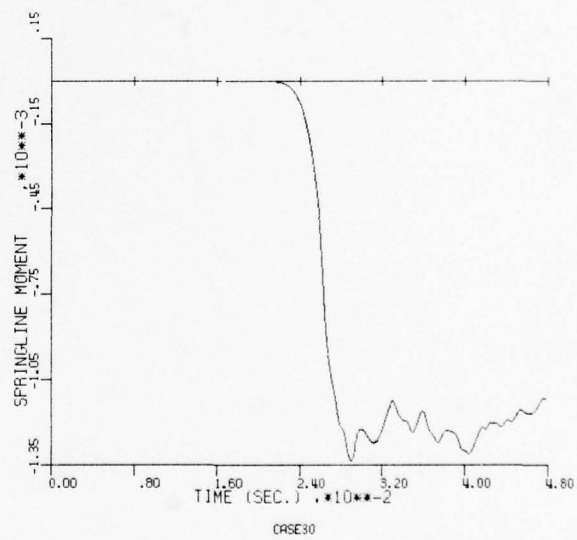
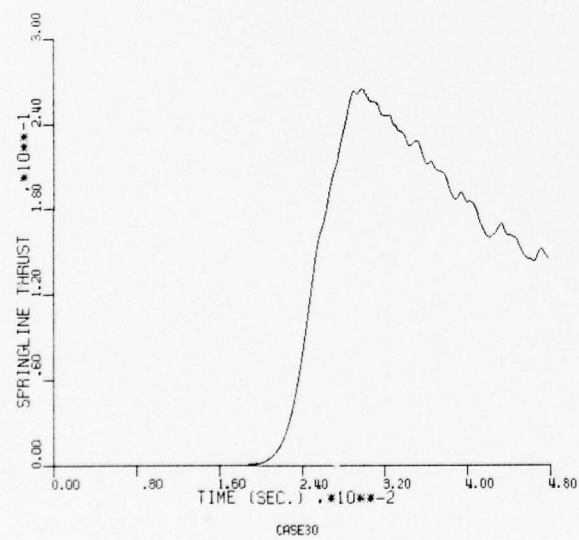
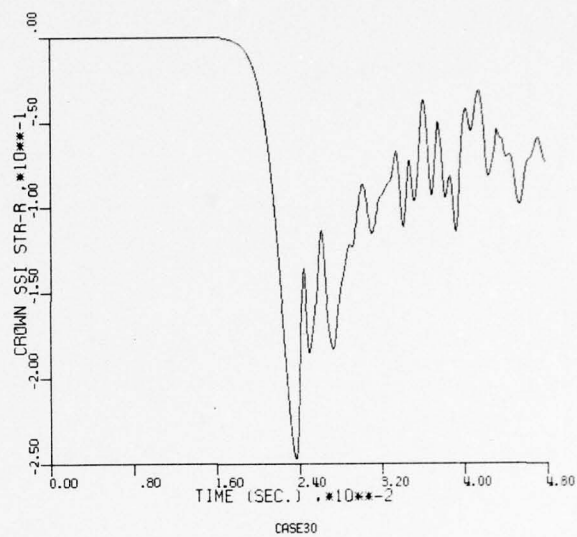
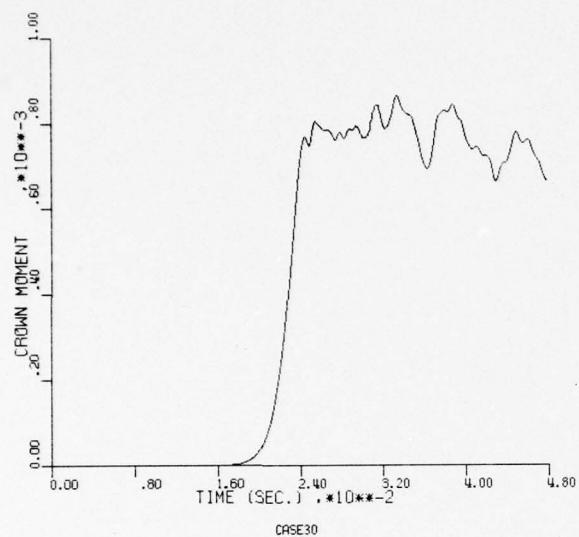




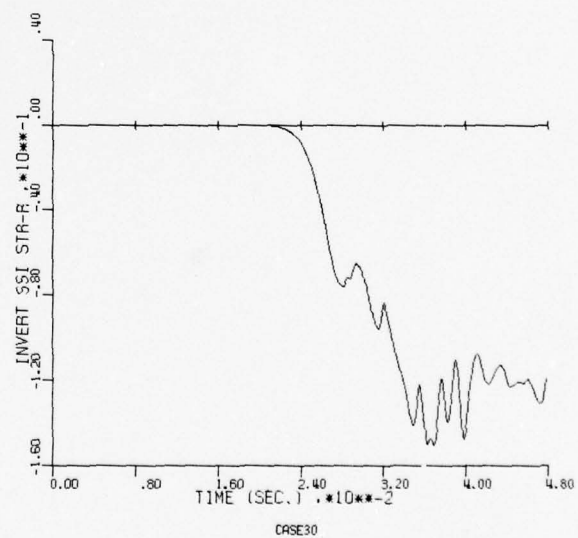
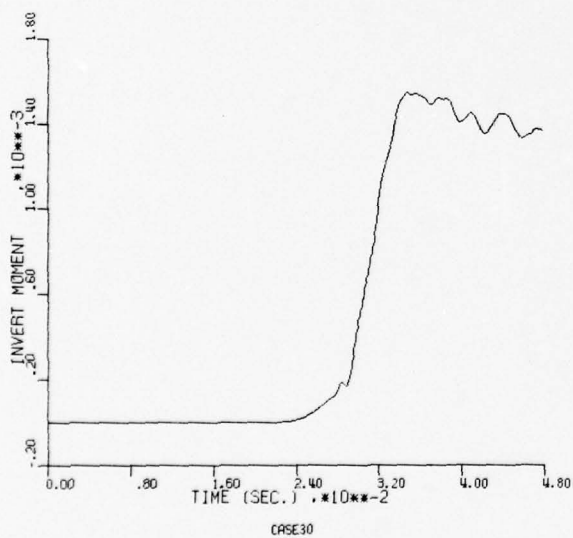
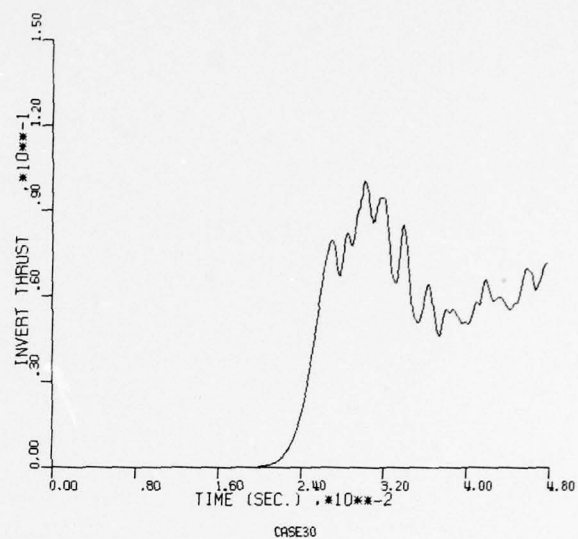
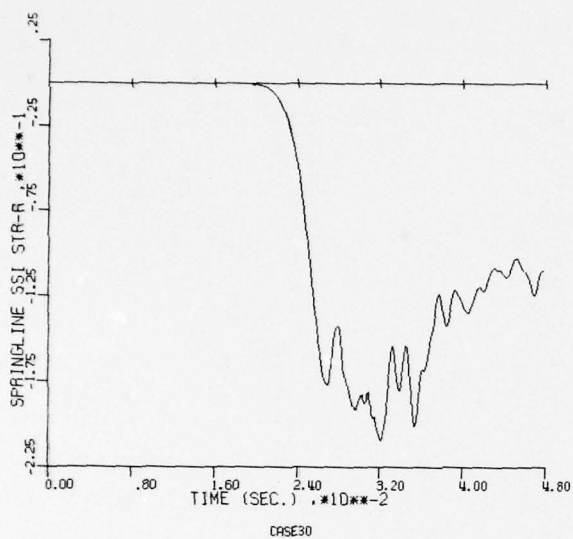












CASE 31

MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.009593	-.607603	-.282996	-.014944
	2	0.000000	0.000000	-.023965	-.607210	-.284406	-.042281
	3	0.000000	0.000000	-.040758	-.567863	-.308263	-.123576
	4	0.000000	-.0000019	-.056332	-.602688	-.304797	-.005747
	5	0.000000	-.0002054	-.064404	-.608562	-.307681	-.049037
	6	0.000000	-.0008622	-.068741	-.622855	-.347033	-.104283
	7	0.000000	-.0017142	-.076037	-.619500	-.334948	-.020598
	8	0.000000	-.0025198	-.072361	-.622489	-.360406	-.061056
	9	0.000000	-.0031363	-.082958	-.625711	-.357919	-.026708
	10	0.000000	-.0036494	-.060836	-.647079	-.369842	-.109460
	11	0.000000	-.0040488	-.029879	-.665101	-.376103	-.170287
SPR	12	0.000000	-.0042157	-.044886	-.729454	-.357941	-.255470
	13	0.000000	-.0043030	-.012160	-.684074	-.394586	-.300868
	14	0.000000	-.0042997	-.042154	-.705797	-.350540	-.358035
	15	0.000000	-.0040701	-.013046	-.673080	-.372254	-.401749
	16	0.000000	-.0038466	-.000000	-.647391	-.324931	-.438319
	17	0.000000	-.0028728	-.000000	-.635282	-.355301	-.513792
	18	0.000000	-.0017231	-.000000	-.578241	-.322531	-.484320
	19	0.000000	-.0002580	-.000000	-.631474	-.327162	-.499688
	20	0.000000	-.0000000	-.000007	-.594077	-.266897	-.455612
	21	0.000000	-.0000000	-.000934	-.621698	-.279953	-.408703
	22	0.000000	-.0000000	-.001479	-.566277	-.216784	-.330631
	23	0.000000	-.0000000	-.004824	-.570376	-.239621	-.231050
INV	24	0.000000	-.0000000	-.002869	-.565693	-.228698	-.082037

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.398018	.0030010	.011215	0.000000	.104039	.082866
	2	.412292	.0029525	.007130	0.000000	.131137	.245508
	3	.447218	.0028499	.001082	0.000000	.144304	.322533
	4	.495561	.0025114	.009403	0.000000	.080019	.357692
	5	.544733	.0020678	.000000	0.000000	.067564	.411343
	6	.597352	.0013049	.000000	0.000000	.109368	.426311
	7	.654979	.0003732	.000270	0.000000	.114448	.459754
	8	.724196	.0000000	.001474	0.000000	.115424	.449467
	9	.765547	.0000000	.009385	0.000000	.112255	.458721
	10	.809032	.0000000	.015954	.003767	.121835	.426343
	11	.839889	.0000000	.032530	0.000000	.048113	.466304
SPR	12	.890445	.0000000	.043684	0.000000	.141967	.261781
	13	.885074	.0000022	.056449	0.000000	.017114	.313715
	14	.892755	.0000227	.060202	0.000000	.116566	.141971
	15	.868934	.0000995	.065415	0.000000	.152958	.114530
	16	.820234	.0002806	.072758	0.000000	.118068	.057236
	17	.742726	.0005290	.073625	.019251	.184466	.048826
	18	.665643	.0009475	.086373	0.000000	.094711	.050714
	19	.578595	.0012615	.094993	0.000000	.082467	.013728
	20	.514256	.0016006	.090055	0.000000	.052895	.000000
	21	.444039	.0026748	.072679	0.000000	.053543	.018307
	22	.398278	.0036516	.059699	0.000000	.043552	.000000
	23	.354797	.0042384	.035649	0.000000	.038324	.000000
INV	24	.338642	.0046343	.016714	0.000000	.018777	.000000

MIN-MAX MODAL AMPLITUDES -- CASE 31

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.96324E-01	-.30818E+00	-.73094E-01	-.171041E-01	-.23284E-01	-.95349E-02
MAX	.57059E+00	.18310E+00	.86885E-02	.48626E-01	.27900E-01	.66036E-02	.65597E-02

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.19918E-03	-.43207E-05	0.	-.10279E-02	-.74312E-03	-.35573E-03	-.43960E-03
MAX	.22041E-15	.94760E-05	.40935E-02	.14225E-02	.32061E-03	.10775E-03	.35202E-04

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.32092E-02	-.68531E-01	-.32125E-01	-.94797E-02	-.34190E-02	-.19753E-02
MAX	0.	.48049E-02	0.	.21570E-01	.19569E-01	.11540E-01	.16414E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.55037E+00	-.23875E+00	-.96833E-01	-.42399E-01	-.29087E-01	-.25189E-01	-.94509E-02
MAX	0.	.94262E-01	.12621E+00	.50212E-01	.42737E-01	.35476E-01	.58849E-01

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.10326E+00	-.83099E-02	-.10941E+00	-.63563E-01	-.18817E-01	-.64785E-02
MAX	0.	.85511E-01	.47831E+00	.15296E+00	.38322E-01	.75631E-01	.49881E-01





SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .041695 .006830 .004075 .004425 .003948 .000826  
MIN. .047248 1.005970 .972792 .986787 .994728 .988129  
MAX. .000000 .000000 0.000000 0.000000 .000001 .000000  
INPUT  
VARIABLE  
.10104E-03  
-.42157E-02  
.26148E-07

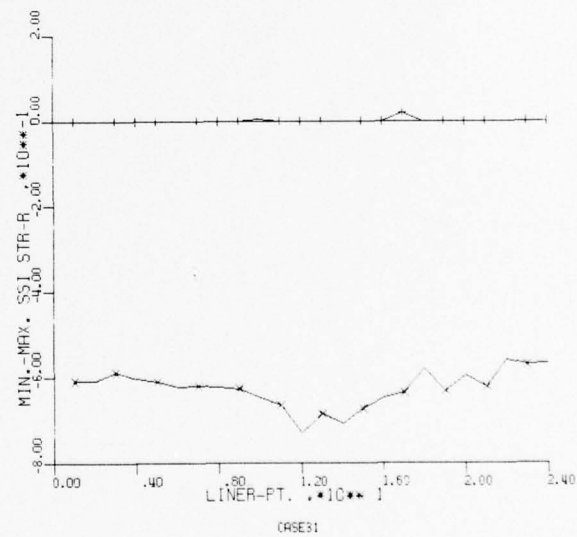
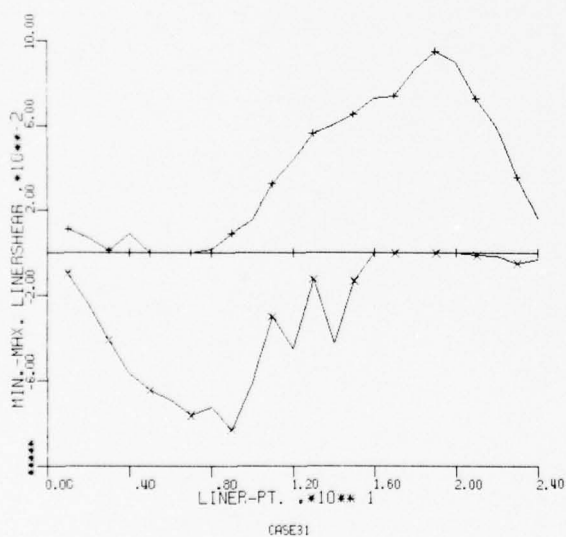
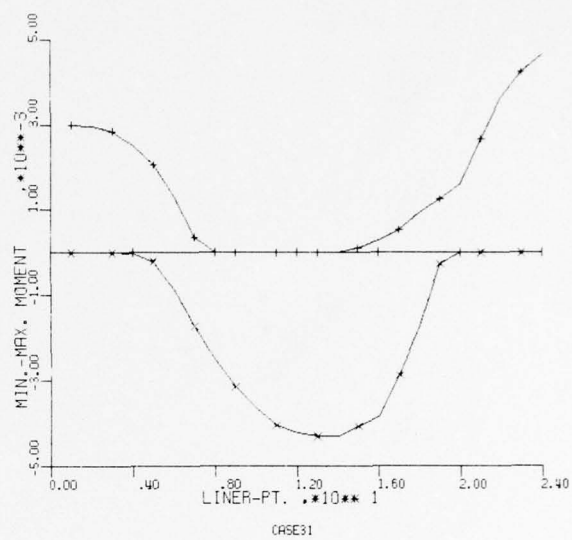
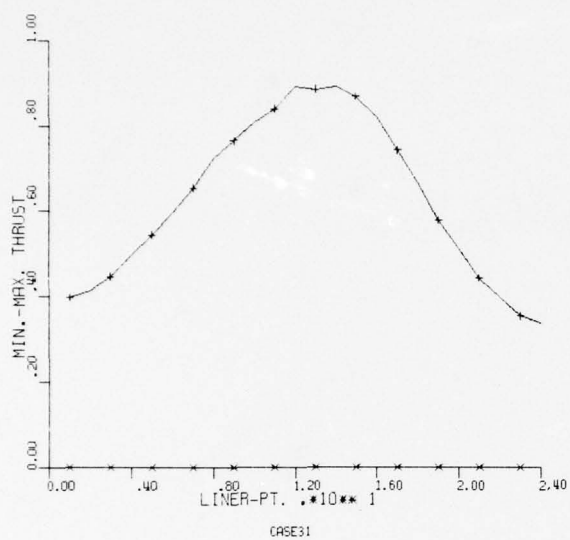
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .017345 .016886 .010635 .010978 .011670 .013871  
MIN. .751460 .750449 .916817 .916803 .910861 .947714  
MAX. 0.000000 0.000000 .000123 .000578 0.000000 0.000000  
INPUT  
VARIABLE  
.15002E-01  
-.72945E+00  
0.

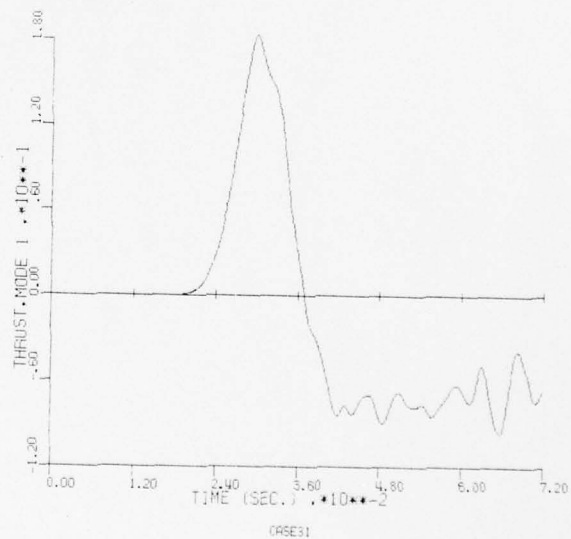
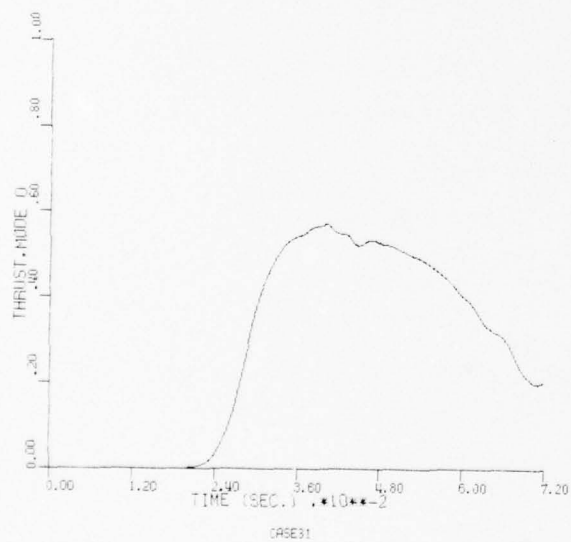
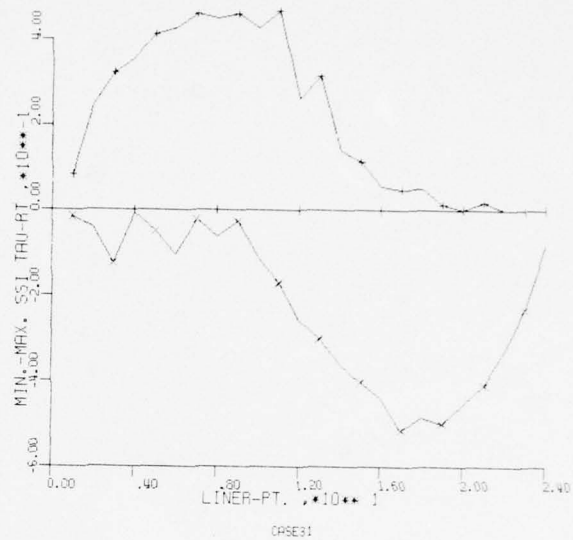
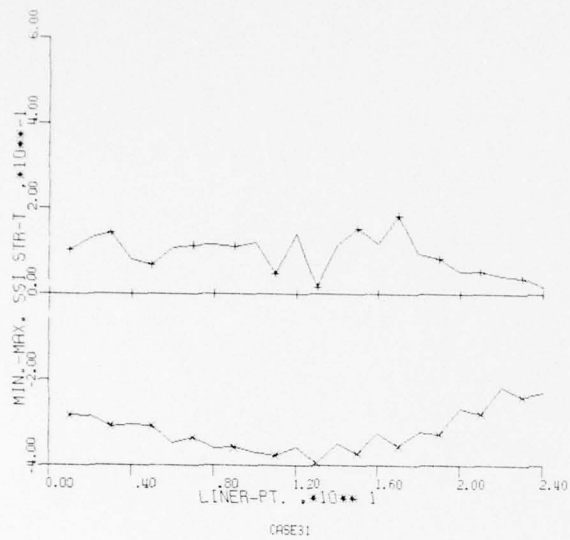
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .002552 .008042 .007999 .002368 .001146 .001180  
MIN. 0.000000 -.000101 0.000000 -.000000 -.000000 -.000000  
MAX. 1.684940 1.878936 1.047345 .947702 .992925 1.018186 1.003936  
INPUT  
VARIABLE  
.82570E-02  
0.  
.33864E+00

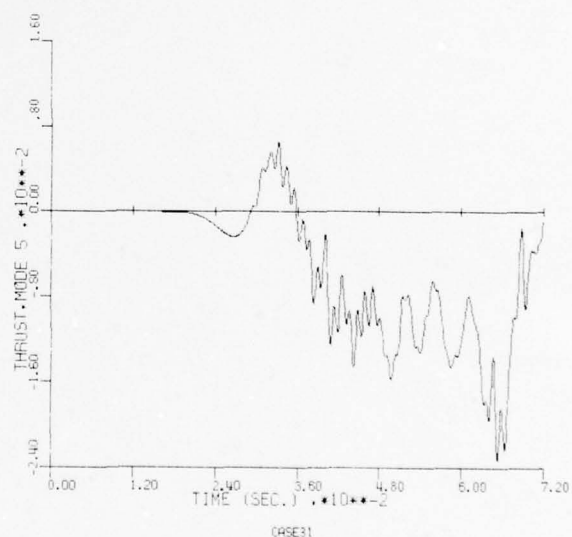
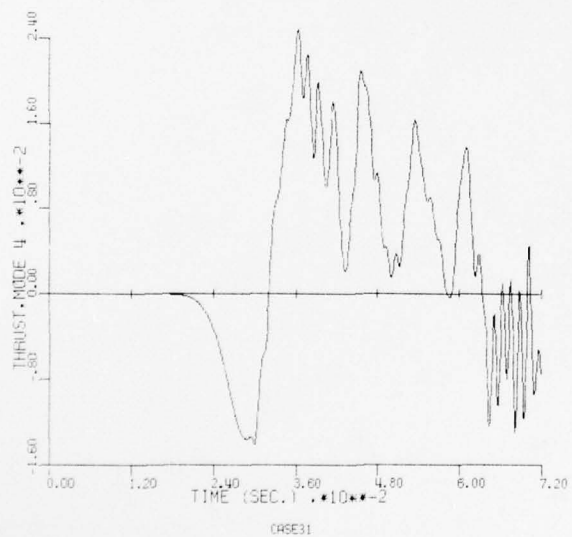
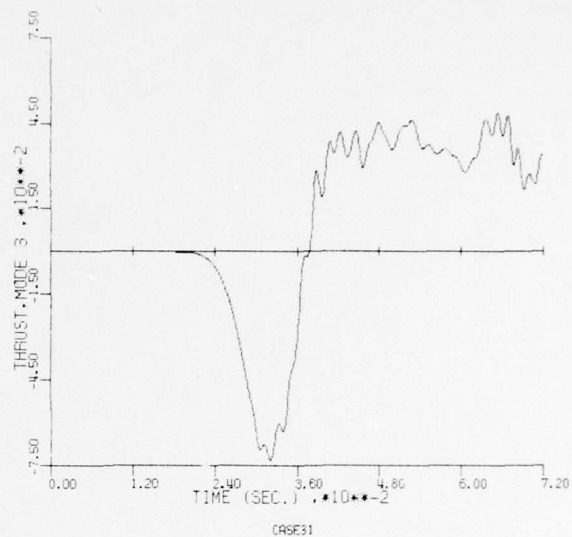
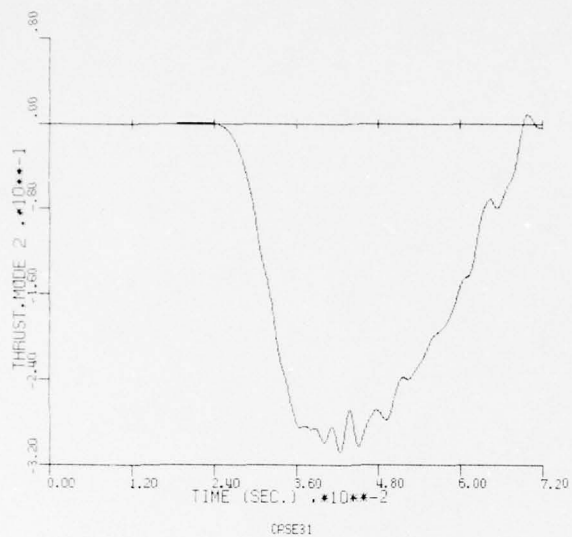
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .052414 .052378 .009180 .003165 .002853 .001176  
MIN. -.000199 -.000197 0.000000 -.000187 0.000000 0.000000  
MAX. .000000 0.000000 .837372 .993807 1.014924 1.048236 .991309  
INPUT  
VARIABLE  
.11352E-03  
-.43411E-25  
.46343E-02

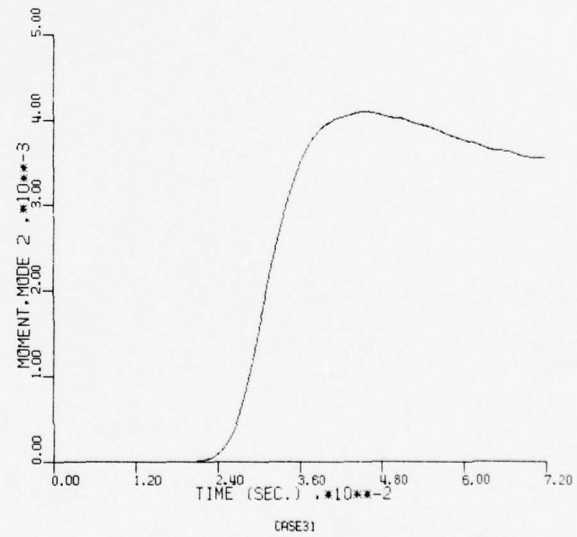
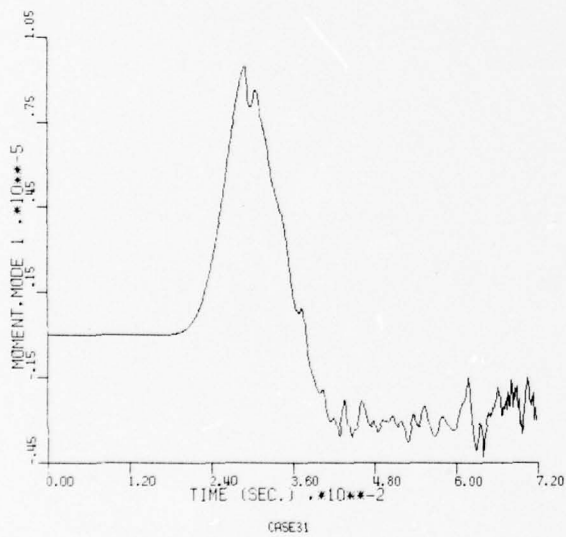
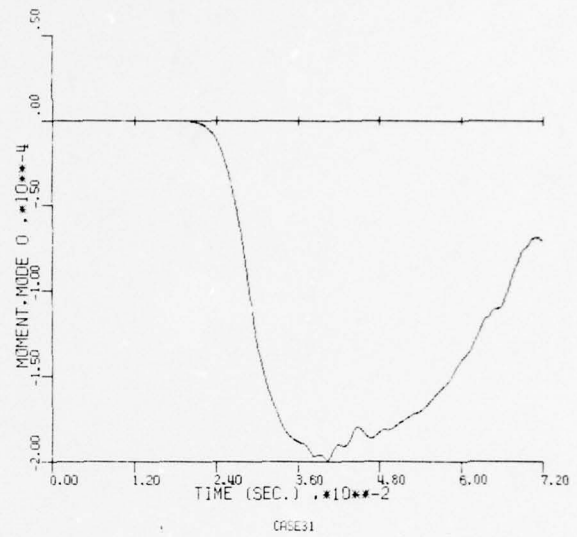
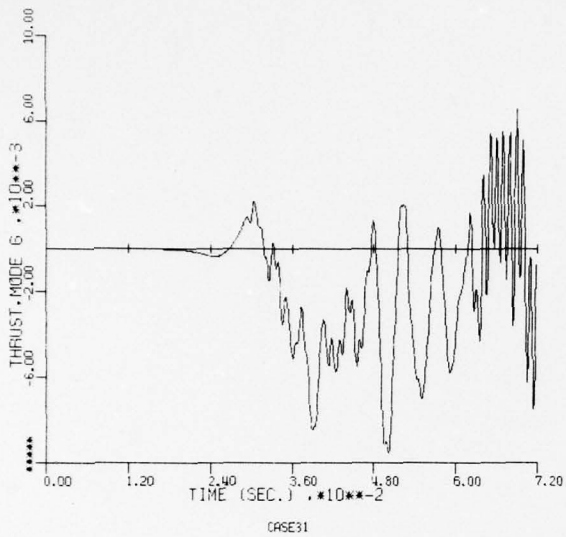
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .018610 .010063 .002442 .000343 .000129 .004672  
MIN. .972867 1.125829 .947727 .988055 1.020442 1.048054 1.002804  
MAX. 0.000000 .021910 0.000000 .003789 0.000000 .000121 0.000000  
INPUT  
VARIABLE  
.12305E-01  
-.56569E+00  
0.

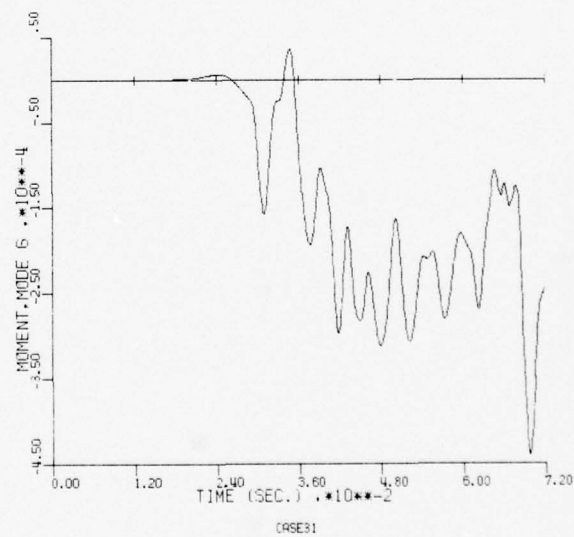
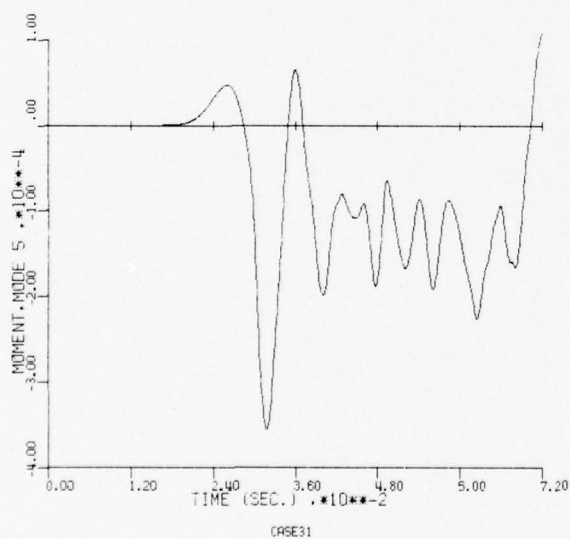
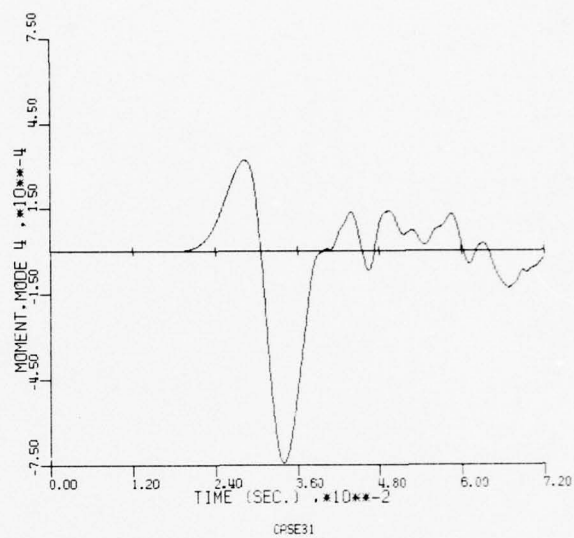
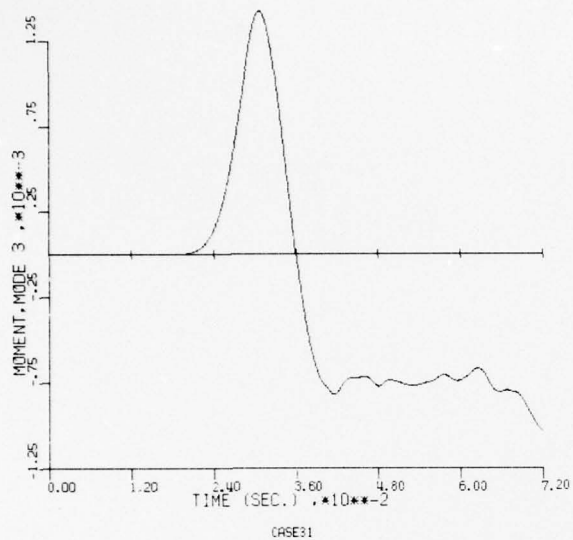




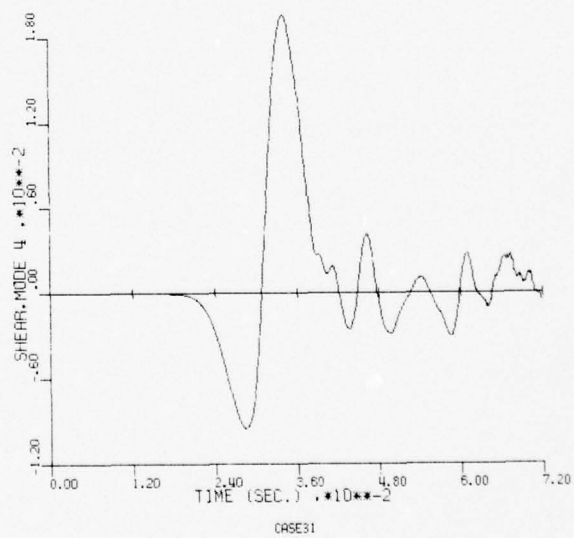
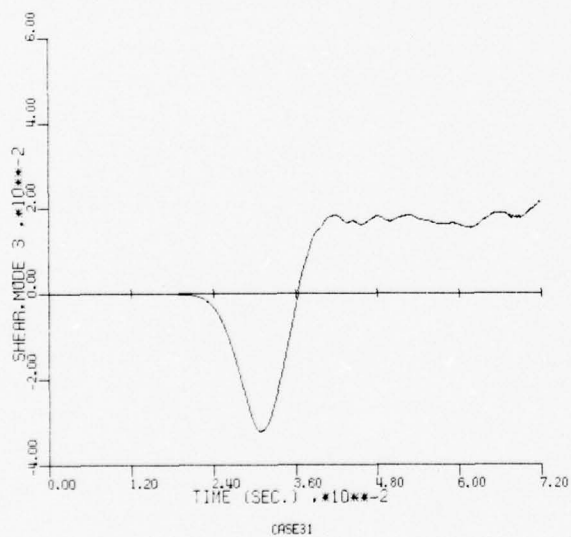
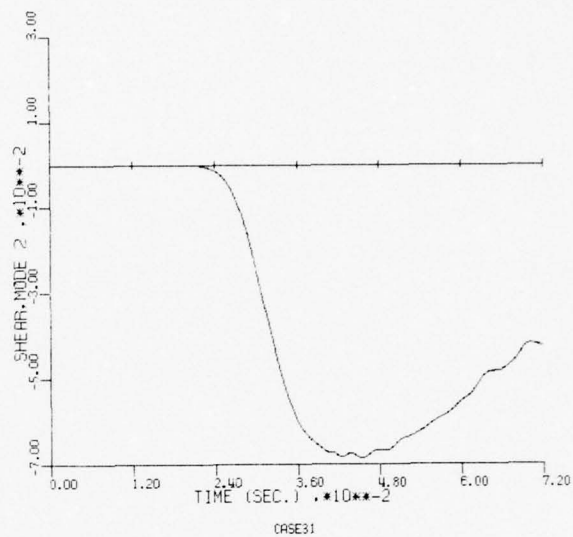
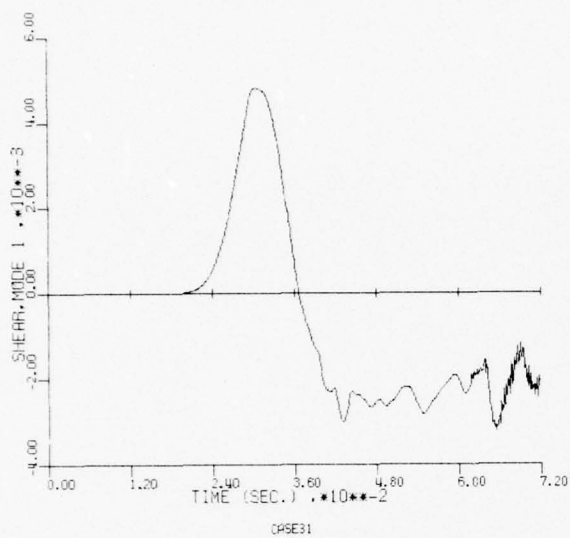


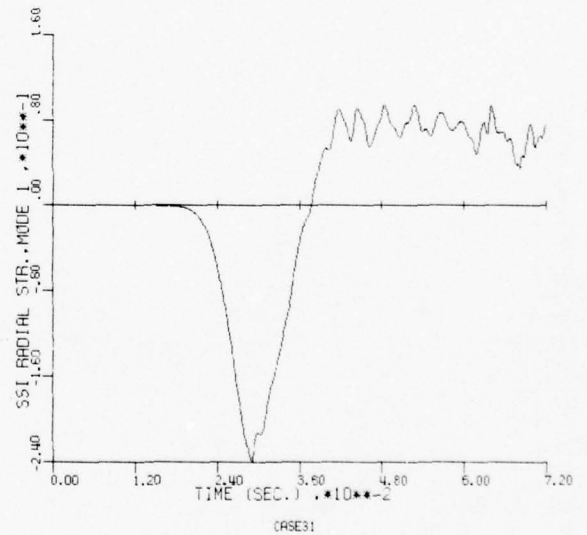
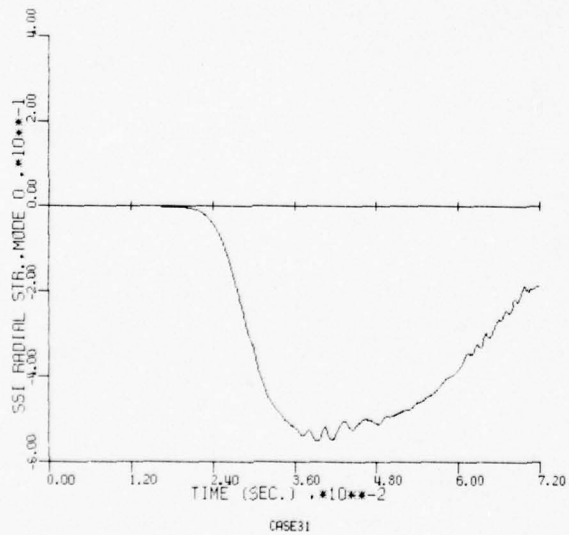
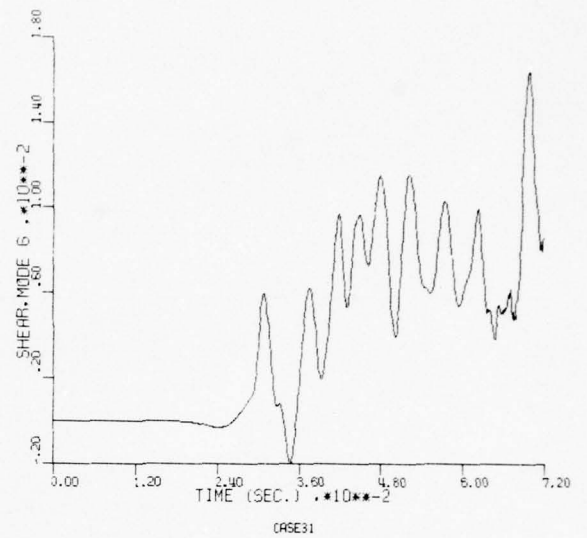
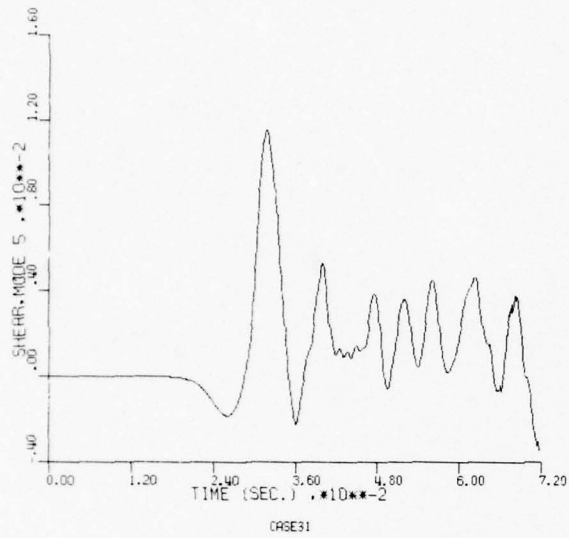


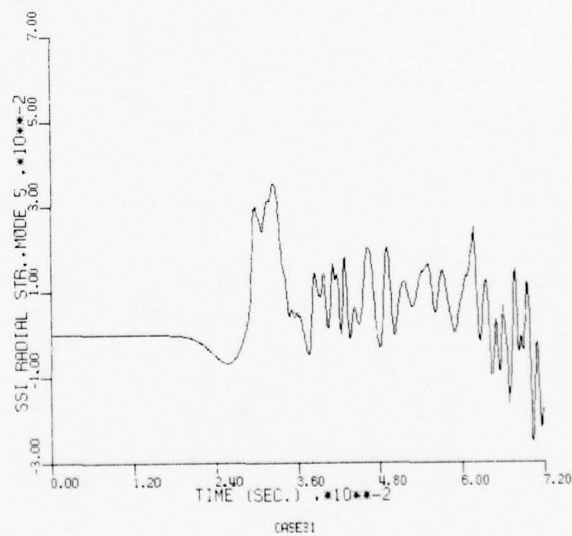
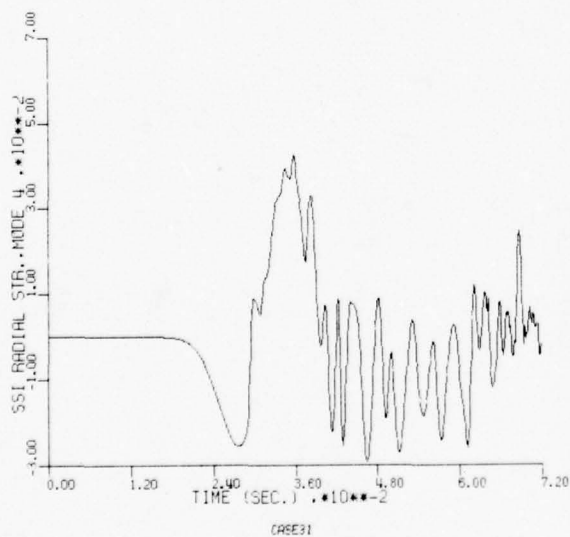
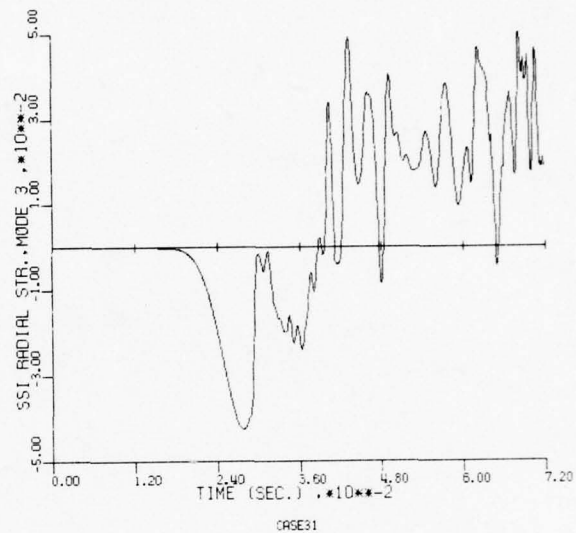
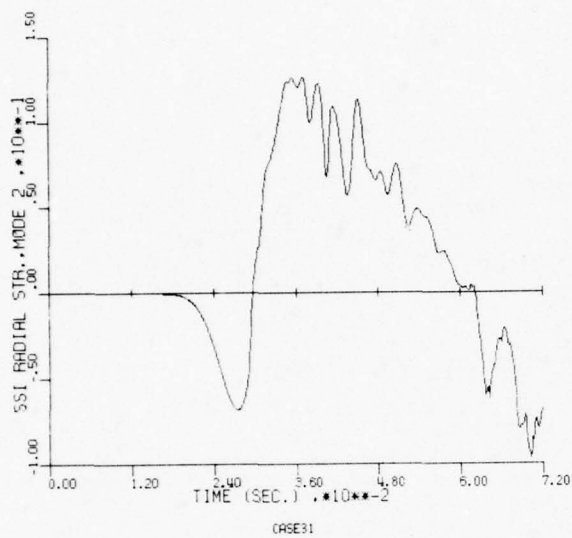


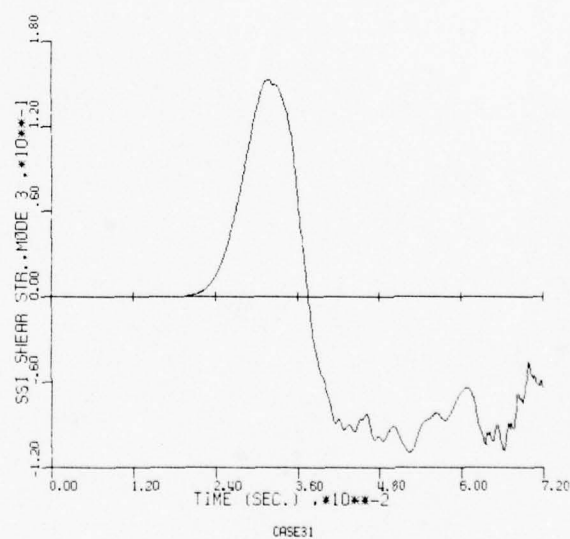
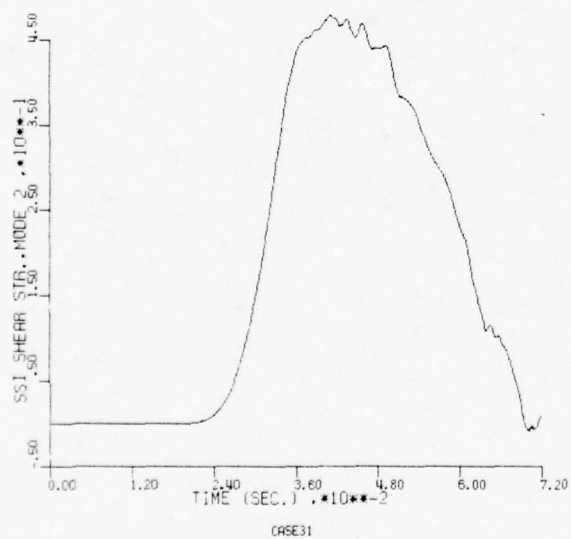
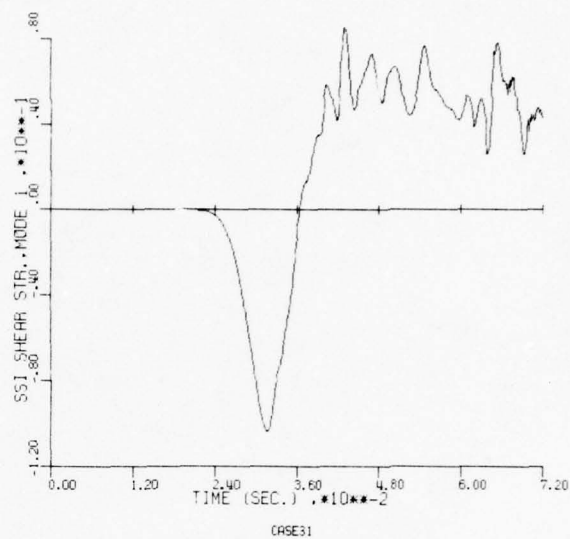
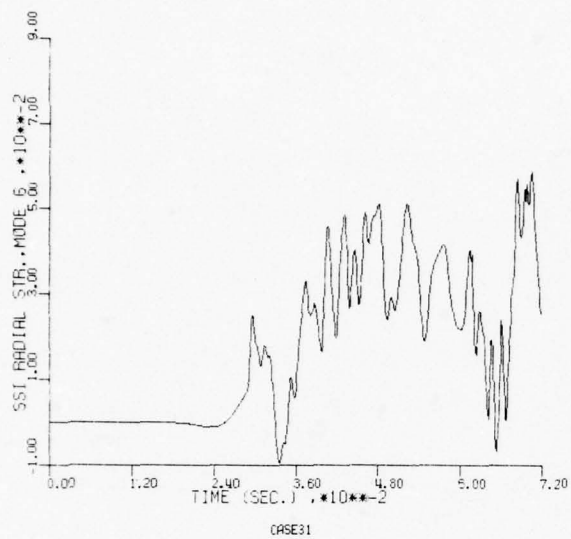


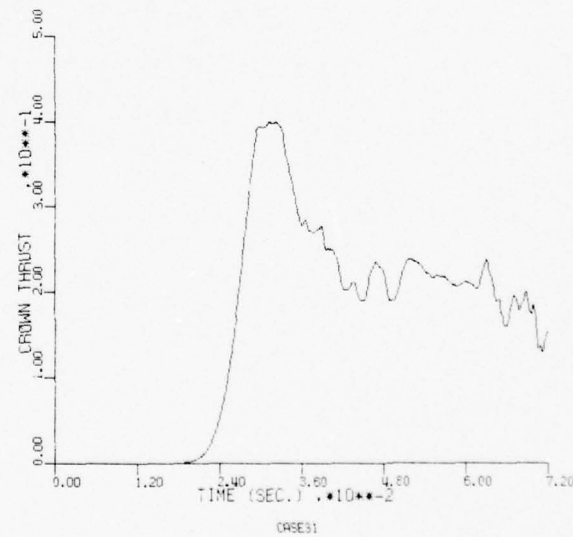
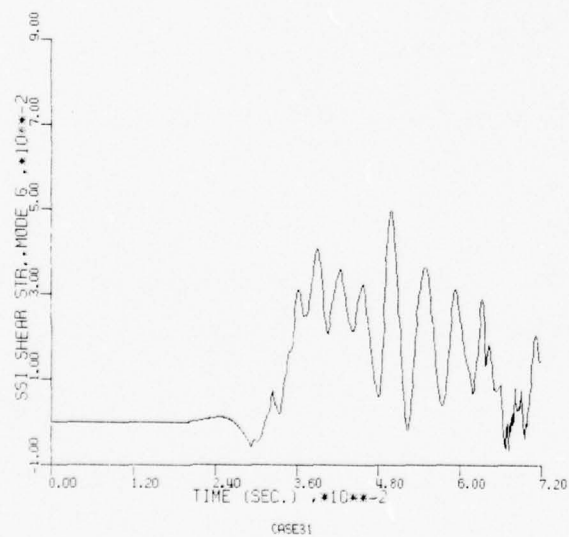
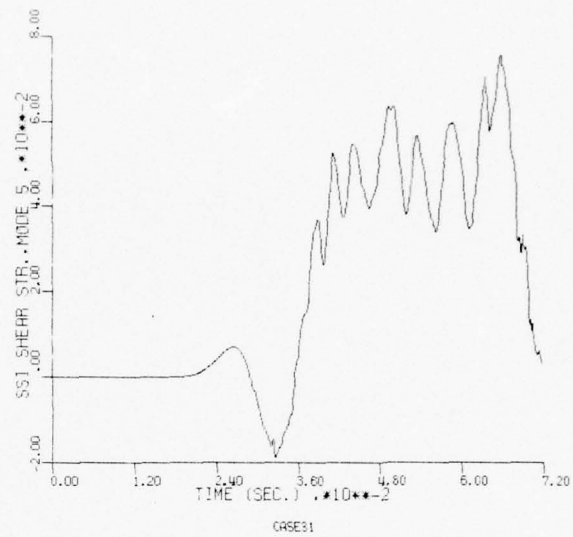
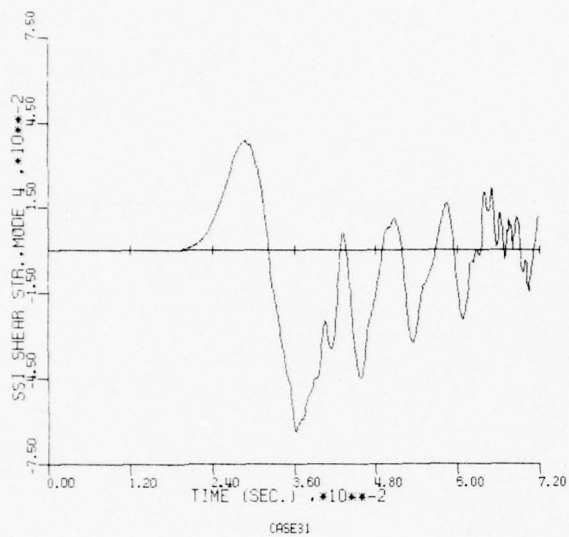




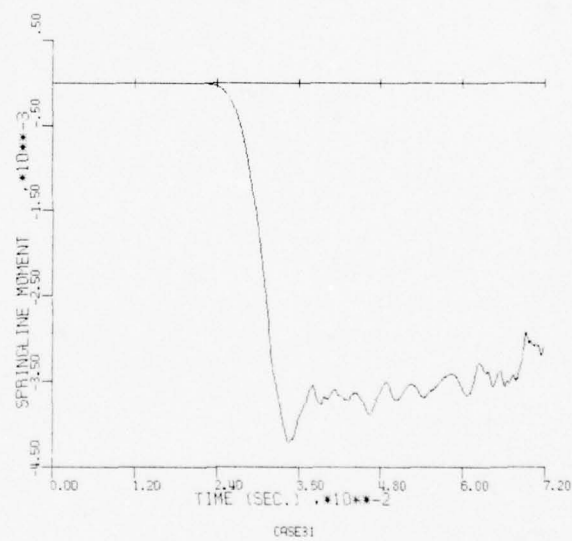
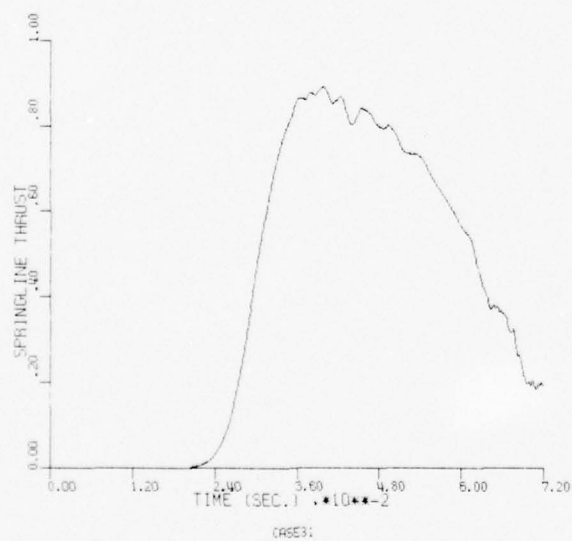
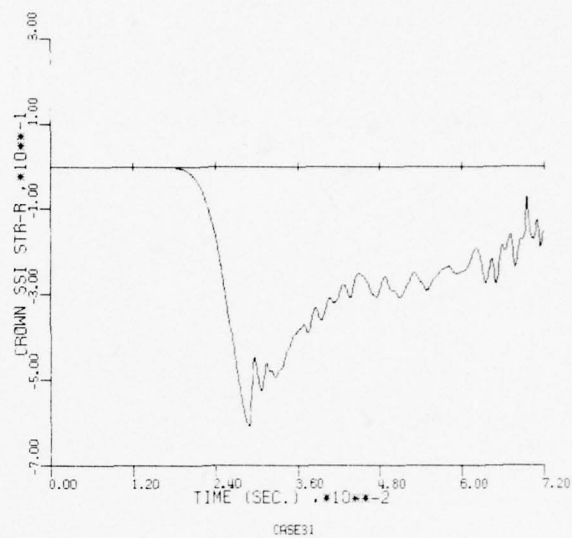
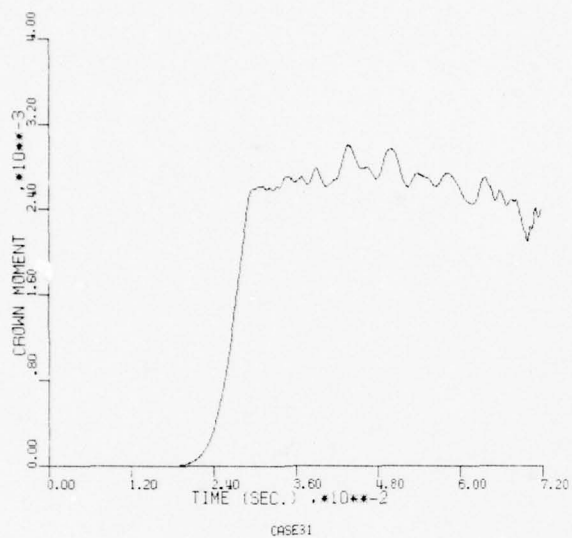


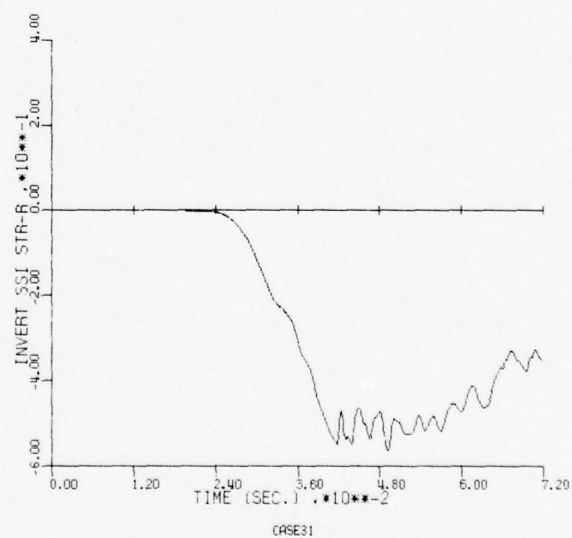
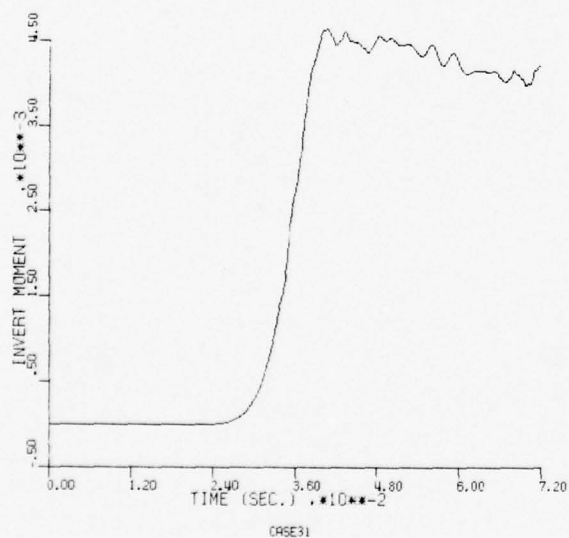
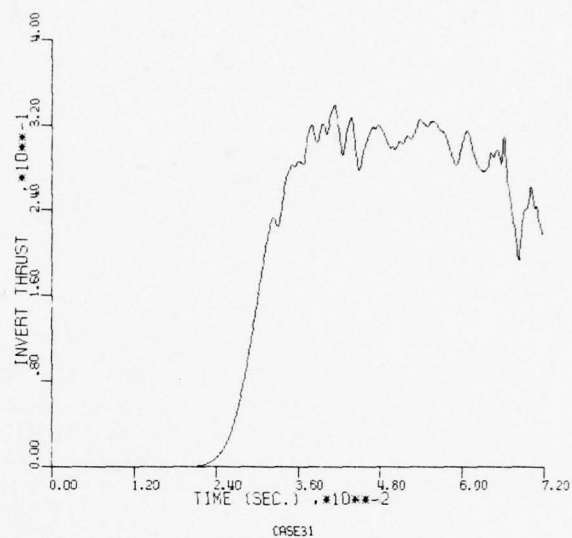
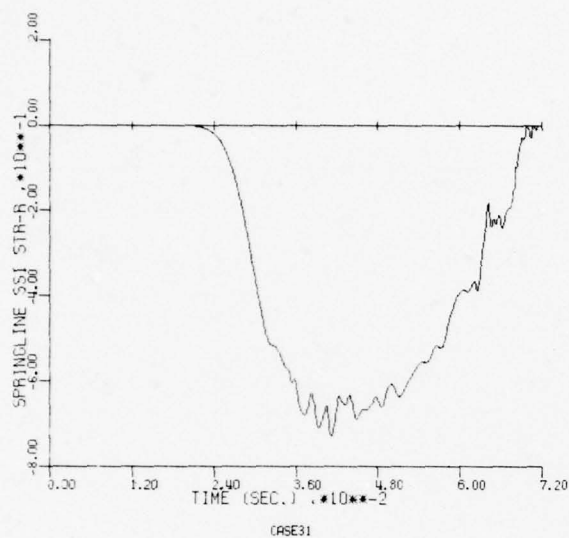












## CASE32

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## MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.019962	-.913955	-.442416	-.000004
	2	0.000000	0.000000	-.023666	-.859532	-.416699	-.058799
	3	0.000000	0.000000	-.048491	-.809019	-.464239	-.118146
	4	0.000000	-.0002859	-.063923	-.691694	-.427081	-.095174
	5	0.000000	-.0010028	-.067751	-.660942	-.406123	-.115044
	6	0.000000	-.0016596	-.090823	-.627748	-.427071	-.102143
	7	0.000000	-.0024686	-.068122	-.611668	-.397167	-.024600
	8	0.000000	-.0029657	-.079651	-.601835	-.523973	-.036331
	9	0.000000	-.0034374	-.050620	-.555126	-.522947	-.099335
SPR	10	0.000000	-.0033651	-.069921	-.766680	-.596725	-.233508
	11	0.000000	-.0036798	-.046029	-.595363	-.581335	-.293654
	12	0.000000	-.0035806	-.053772	-.743255	-.762627	-.324288
	13	0.000000	-.0034457	-.039708	-.824235	-.655591	-.374512
	14	0.000000	-.0033309	-.030640	-.626697	-.565023	-.369706
	15	0.000000	-.0031098	-.014602	-.787366	-.543022	-.394002
	16	0.000000	-.0027693	-.021883	-.615495	-.453616	-.385345
	17	0.000000	-.0027289	-.030661	-.658819	-.525073	-.446136
	18	0.000000	-.0020310	-.030098	-.552638	-.354821	-.384464
	19	0.000000	-.0010740	-.034710	-.671415	-.437888	-.449111
	20	0.000000	-.0000109	-.028151	-.532408	-.335349	-.374862
	21	0.000000	-.0000192	-.036318	-.606804	-.387445	-.425344
	22	0.000000	-.0001530	-.026963	-.545747	-.377579	-.366452
	23	0.000000	-.0000000	-.025713	-.648013	-.395697	-.291337
	INV 24	0.000000	-.0001405	-.019656	-.542908	-.468387	-.196471

## MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.323449	.0021620	.006704	0.000000	.004761	.110780
	2	.343913	.0021247	.014125	0.000000	.006050	.214605
	3	.374651	.0020112	0.000000	.001648	.014666	.310212
	4	.422891	.0017989	.000550	0.000000	.012335	.326301
	5	.476909	.0013283	.000000	0.000000	.016877	.339289
	6	.531115	.0007614	.006912	.011420	.026318	.321357
	7	.582799	.0003736	.030296	0.000000	.004804	.342661
	8	.633976	.0000680	.043338	.002489	.074575	.379938
	9	.648011	.0000000	.066994	0.000000	.009764	.384431
	10	.672698	.0000000	.079123	0.000000	.031201	.436302
	11	.699445	.0000000	.083422	0.000000	0.000000	.430802
SPR	12	.723710	.0003177	.101306	0.000000	0.000000	.357864
	13	.732585	.0006337	.096753	0.000000	0.000000	.490937
	14	.744940	.0009964	.099558	.013738	0.000000	.229168
	15	.737603	.0011880	.095554	0.000000	0.000000	.247015
	16	.732385	.0014056	.090696	0.000000	.046943	.163719
	17	.687389	.0014435	.073052	0.000000	.004241	.159834
	18	.645844	.0017002	.080745	.004085	.024599	.066596
	19	.571205	.0019522	.073228	0.000000	.050723	.125296
	20	.518241	.0020147	.103360	0.000000	.019346	.147283
	21	.438929	.0020879	.083112	0.000000	0.000000	.126378
	22	.405625	.0031367	.066357	0.000000	0.000000	.047708
	23	.369460	.0037964	.047315	0.000000	0.000000	.020895
	INV 24	.340292	.0039991	.015631	0.000000	0.000000	.000000

MIN-MAX MODAL AMPLITUDES -- CASE32

LINER THRUST PEAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
LINER MOMENT PEAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
LINER SHEAR PEAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
SSI RADIAL STR. PEAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
SSI SHEAR STR. PEAK MODAL AMPLITUDES						
MIN	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5
MAX	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5



	***** MODAL HISTORY/INPUT *****			***** VARIABLE *****			***** MODES *****			INPUT
	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	MODES 0-4	MODES 0-5	MODES 0-6	VARIABLE		
SRSS	.013352	.005642	.002598	.002253	.001238	.001505	.000219	.51187E+02		
MIN.	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.		
MAX.	1.486934	1.596577	1.307364	1.087740	.981956	.982706	1.005576	.32345E+00		

SKSS  
MIN.  
MAX.

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.041434	.041501	.019076	.007772	.001190	.001567	.002587	.52620E+04	
MIN	-.000168	-.000171	0.000000	0.000000	0.000000	0.000000	0.000000	0.	
MAX	.000000	.000000	1.276251	1.197991	1.119520	1.023016	1.029868	.21620E+02	

STRESS  
MIN.  
MAX.

	***** MODAL HISTORY/INPUT *****										***** VARIABLE *****										***** MODES *****										***** INPUT *****																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
	MODES 0-1		MODES 0-2		MODES 0-3		MODES 0-4		MODES 0-5		MODES 0-6		MODES 0-7		MODES 0-8		MODES 0-9		MODES 0-10		MODES 0-11		MODES 0-12		MODES 0-13		MODES 0-14		MODES 0-15		MODES 0-16		MODES 0-17		MODES 0-18		MODES 0-19		MODES 0-20		MODES 0-21		MODES 0-22		MODES 0-23		MODES 0-24		MODES 0-25		MODES 0-26		MODES 0-27		MODES 0-28		MODES 0-29		MODES 0-30		MODES 0-31		MODES 0-32		MODES 0-33		MODES 0-34		MODES 0-35		MODES 0-36		MODES 0-37		MODES 0-38		MODES 0-39		MODES 0-40		MODES 0-41		MODES 0-42		MODES 0-43		MODES 0-44		MODES 0-45		MODES 0-46		MODES 0-47		MODES 0-48		MODES 0-49		MODES 0-50		MODES 0-51		MODES 0-52		MODES 0-53		MODES 0-54		MODES 0-55		MODES 0-56		MODES 0-57		MODES 0-58		MODES 0-59		MODES 0-60		MODES 0-61		MODES 0-62		MODES 0-63		MODES 0-64		MODES 0-65		MODES 0-66		MODES 0-67		MODES 0-68		MODES 0-69		MODES 0-70		MODES 0-71		MODES 0-72		MODES 0-73		MODES 0-74		MODES 0-75		MODES 0-76		MODES 0-77		MODES 0-78		MODES 0-79		MODES 0-80		MODES 0-81		MODES 0-82		MODES 0-83		MODES 0-84		MODES 0-85		MODES 0-86		MODES 0-87		MODES 0-88		MODES 0-89		MODES 0-90		MODES 0-91		MODES 0-92		MODES 0-93		MODES 0-94		MODES 0-95		MODES 0-96		MODES 0-97		MODES 0-98		MODES 0-99		MODES 0-100		MODES 0-101		MODES 0-102		MODES 0-103		MODES 0-104		MODES 0-105		MODES 0-106		MODES 0-107		MODES 0-108		MODES 0-109		MODES 0-110		MODES 0-111		MODES 0-112		MODES 0-113		MODES 0-114		MODES 0-115		MODES 0-116		MODES 0-117		MODES 0-118		MODES 0-119		MODES 0-120		MODES 0-121		MODES 0-122		MODES 0-123		MODES 0-124		MODES 0-125		MODES 0-126		MODES 0-127		MODES 0-128		MODES 0-129		MODES 0-130		MODES 0-131		MODES 0-132		MODES 0-133		MODES 0-134		MODES 0-135		MODES 0-136		MODES 0-137		MODES 0-138		MODES 0-139		MODES 0-140		MODES 0-141		MODES 0-142		MODES 0-143		MODES 0-144		MODES 0-145		MODES 0-146		MODES 0-147		MODES 0-148		MODES 0-149		MODES 0-150		MODES 0-151		MODES 0-152		MODES 0-153		MODES 0-154		MODES 0-155		MODES 0-156		MODES 0-157		MODES 0-158		MODES 0-159		MODES 0-160		MODES 0-161		MODES 0-162		MODES 0-163		MODES 0-164		MODES 0-165		MODES 0-166		MODES 0-167		MODES 0-168		MODES 0-169		MODES 0-170		MODES 0-171		MODES 0-172		MODES 0-173		MODES 0-174		MODES 0-175		MODES 0-176		MODES 0-177		MODES 0-178		MODES 0-179		MODES 0-180		MODES 0-181		MODES 0-182		MODES 0-183		MODES 0-184		MODES 0-185		MODES 0-186		MODES 0-187		MODES 0-188		MODES 0-189		MODES 0-190		MODES 0-191		MODES 0-192		MODES 0-193		MODES 0-194		MODES 0-195		MODES 0-196		MODES 0-197		MODES 0-198		MODES 0-199		MODES 0-200		MODES 0-201		MODES 0-202		MODES 0-203		MODES 0-204		MODES 0-205		MODES 0-206		MODES 0-207		MODES 0-208		MODES 0-209		MODES 0-210		MODES 0-211		MODES 0-212		MODES 0-213		MODES 0-214		MODES 0-215		MODES 0-216		MODES 0-217		MODES 0-218		MODES 0-219		MODES 0-220		MODES 0-221		MODES 0-222		MODES 0-223		MODES 0-224		MODES 0-225		MODES 0-226		MODES 0-227		MODES 0-228		MODES 0-229		MODES 0-230		MODES 0-231		MODES 0-232		MODES 0-233		MODES 0-234		MODES 0-235		MODES 0-236		MODES 0-237		MODES 0-238		MODES 0-239		MODES 0-240		MODES 0-241		MODES 0-242	

SRSS  
MIN.  
MAX.

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.001915	.001456	.000320	.000034	.000407	.000374	.000098	.000000	.13942E-01
MIN.	0.000000	0.000000	-0.000000	-0.000000	-0.000000	-0.000000	-0.000000	0.000000	0.
MAX.	.664558	.656827	.966536	.956866	.978747	.971020	.98174	.98174	.72371E+00

BRSS  
MIN.  
MAX.



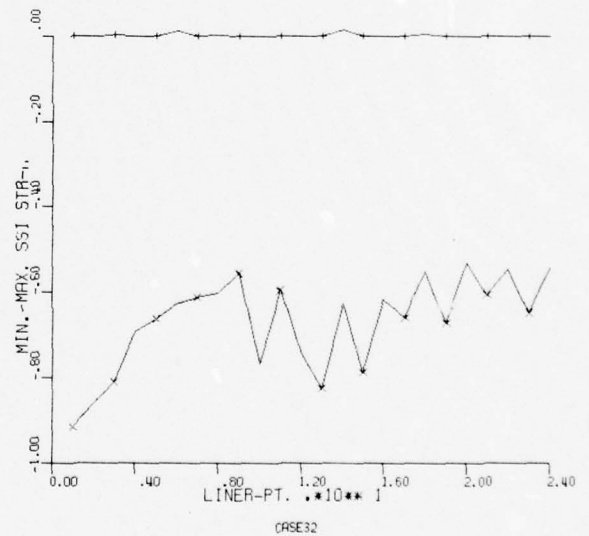
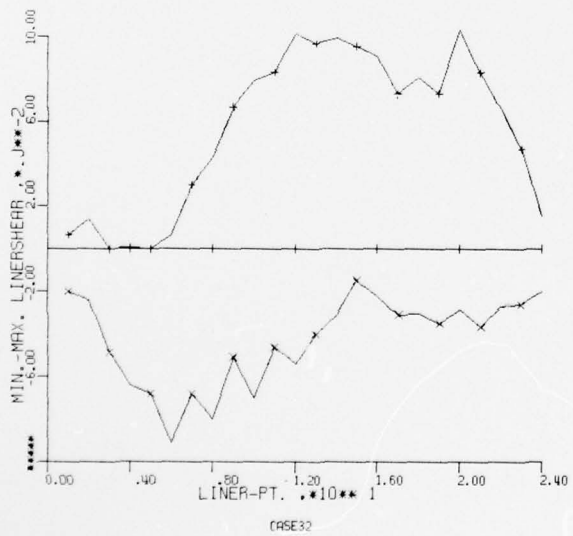
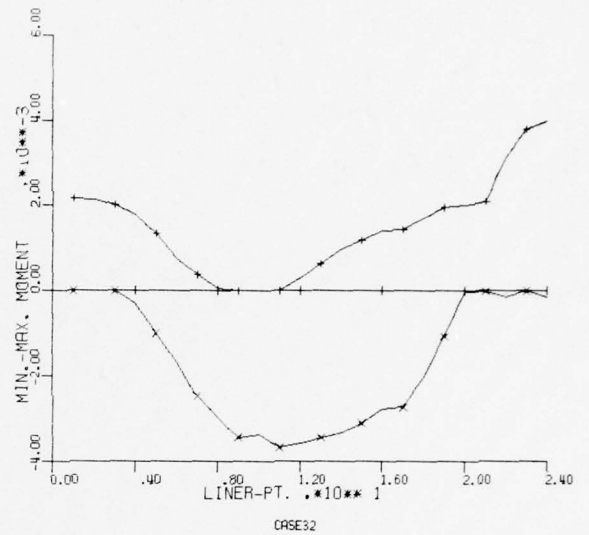
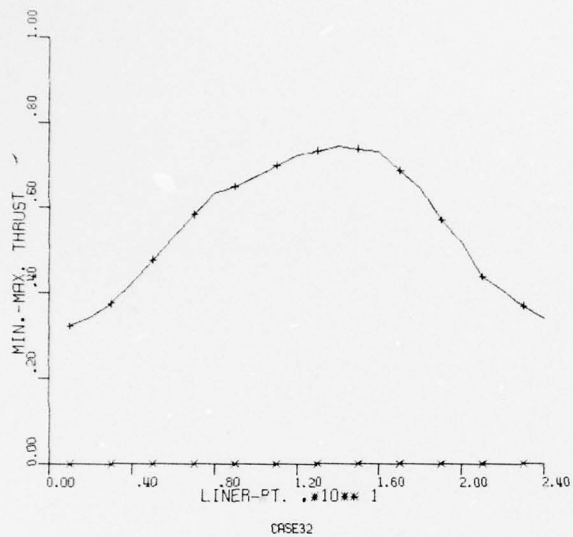
SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODAL HISTORY/INPUT  
SRSS .035841 .035838 .008243 .004357 .000000 0.000000  
MIN. .047020 .047057 .856755 .806666 .000000  
MAX. .000000 .000000 .000000 .000000 .000000 .000000  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .72312E-04 .001081 .000339 .919877 .574501 .623515  
VARIABLE .35806E-02 .963333 .945714 .233380 .000000 .000000  
INPUT .31771E-03 .000000 .000000 .000000 .000000 .000000

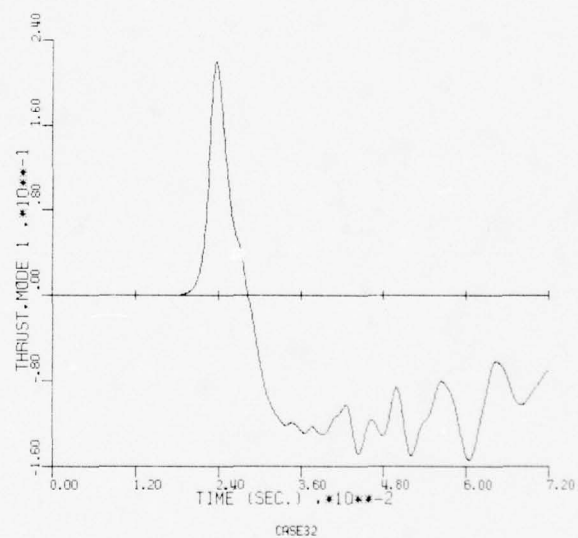
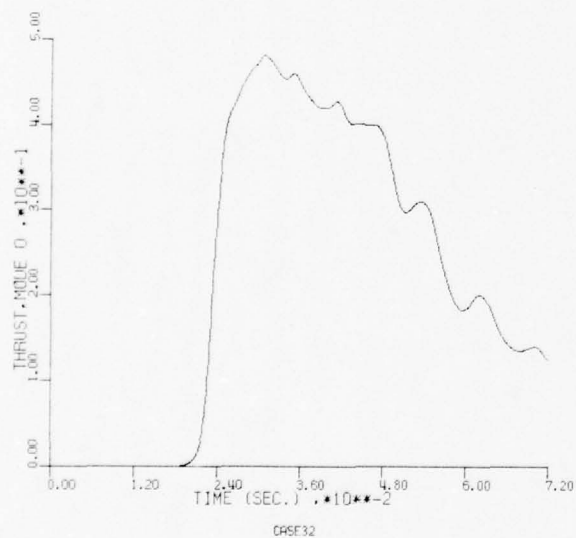
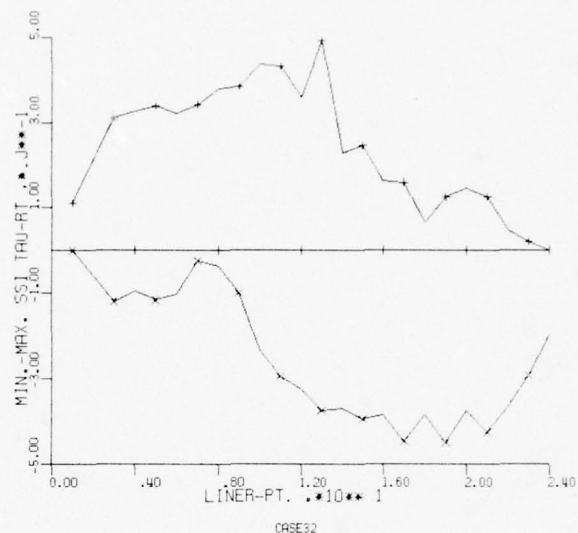
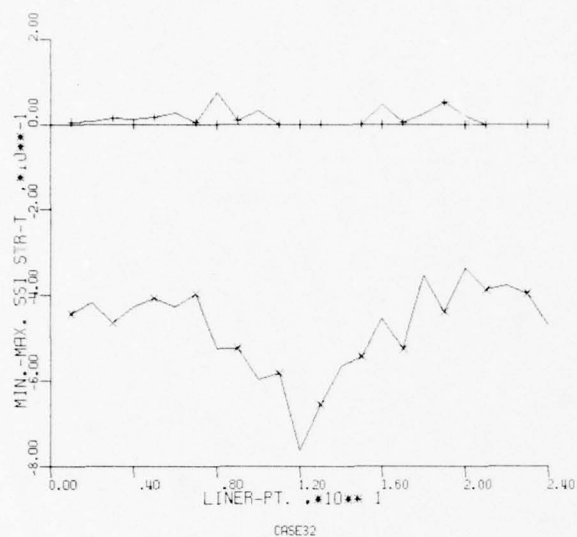
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODAL HISTORY/INPUT  
SRSS .005645 .006064 .010462 .009743 .000000 .000000  
MIN. .646105 .642563 .847671 .838704 .000000 .000000  
MAX. 0.000000 0.000000 .038207 .067074 .000000 .000000  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .12383E-01 .006351 .007103 .882119 .917713 .000000  
VARIABLE .74326E+00 .000000 .001588 .000000 .000000 .000000  
INPUT 0. .000000 .000000 .000000 .000000 .000000

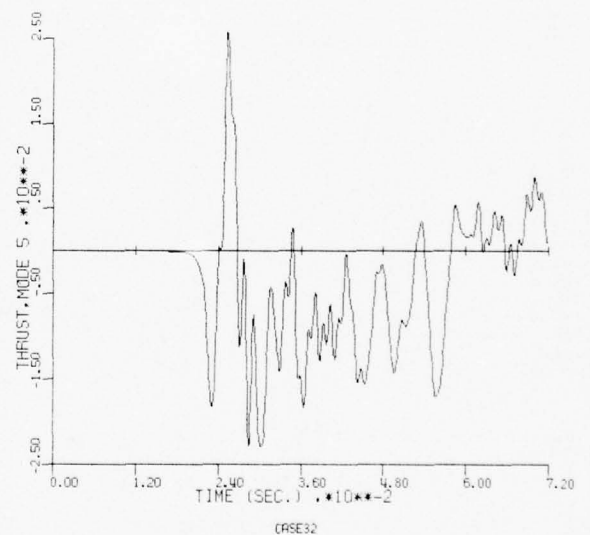
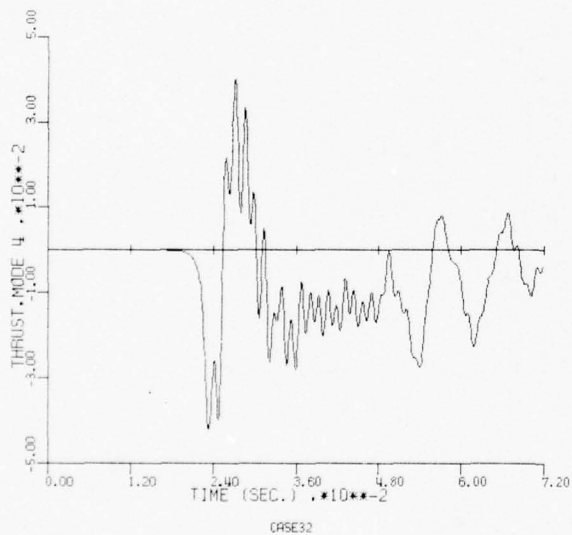
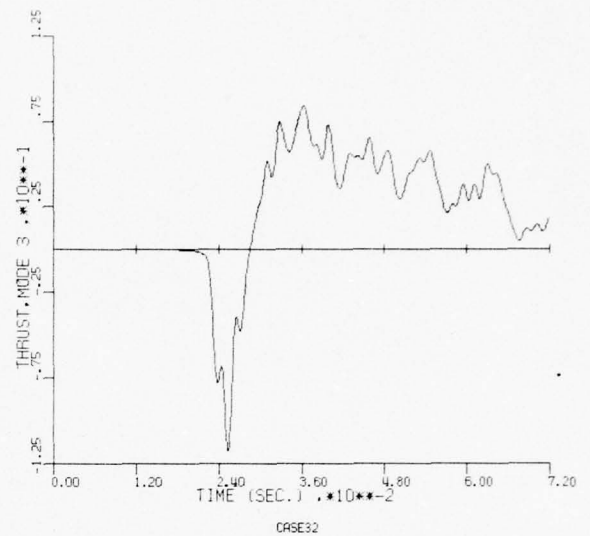
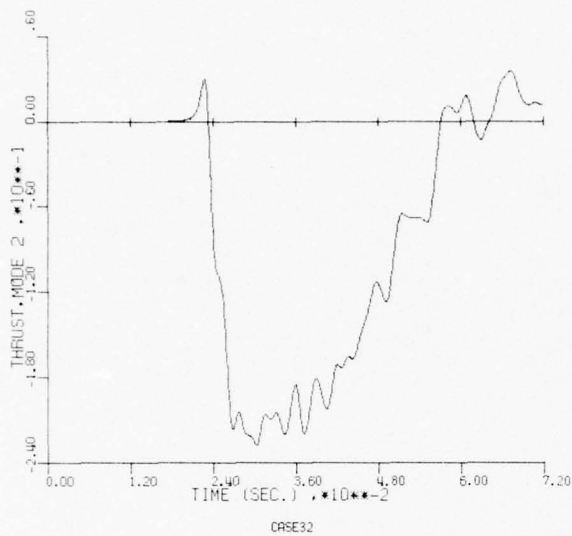
INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODAL HISTORY/INPUT  
SRSS .008060 .003816 .005746 .002720 .000000 .000000  
MIN. 0.000000 -.022550 -.014586 -.000000 1.070716 1.027646  
MAX. 1.413340 1.702744 1.210815 1.070716 1.029628 1.036623  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .82081E-02 .001120 .001922 .000000 .000000 .000000  
VARIABLE 0. .34029E+00 .000000 .000000 .000000 .000000  
INPUT .34029E+00 .000000 .000000 .000000 .000000 .000000

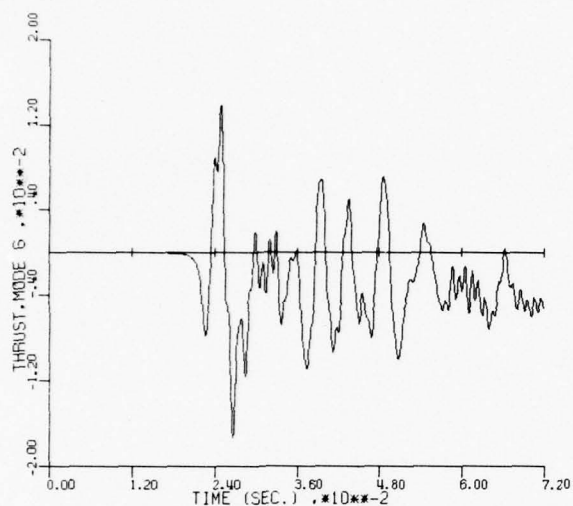
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODAL HISTORY/INPUT  
SRSS .046917 .046840 .013288 .001600 .000000 .000000  
MIN. 1.198384 1.183721 0.000000 3.581655 .925864 .000000  
MAX. .000000 .000000 .691764 .000000 .000000 .000000  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .94891E-04 .004893 .005459 .742282 1.650902 .000000  
VARIABLE .14049E-03 .000000 .000000 .000000 .000000 .000000  
INPUT .39991E-02 .000000 .000000 .000000 .000000 .000000

INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODES 0-1 MODAL HISTORY/INPUT  
SRSS .010512 .003704 .000978 .004822 .000000 .000000  
MIN. .884536 1.097388 .998187 1.004928 .057638 .000000  
MAX. 0.000000 .121628 .032423 .000000 .000000 .000000  
VARIABLE \*\*\*\*\* MODES 0-4 MODES 0-5 MODES 0-6  
INPUT .11631E-01 .007895 .008696 .000000 .000000 .000000  
VARIABLE .54291E+00 .000000 .000000 .000000 .000000 .000000  
INPUT 0. .000000 .000000 .000000 .000000 .000000

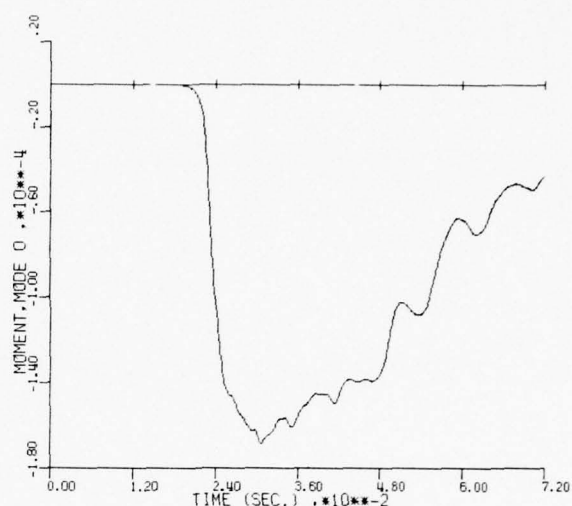




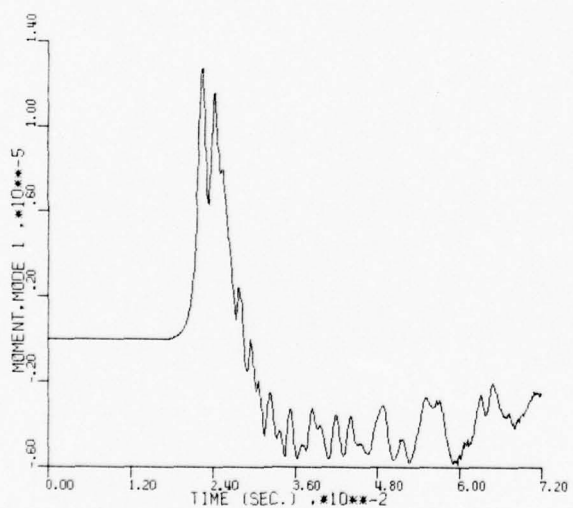




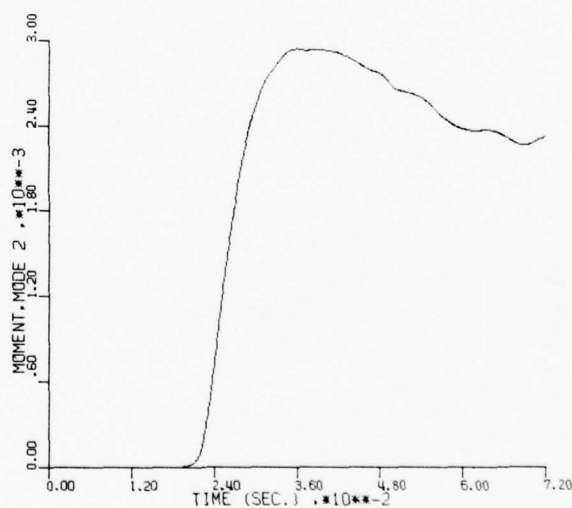
CASE32



CASE32

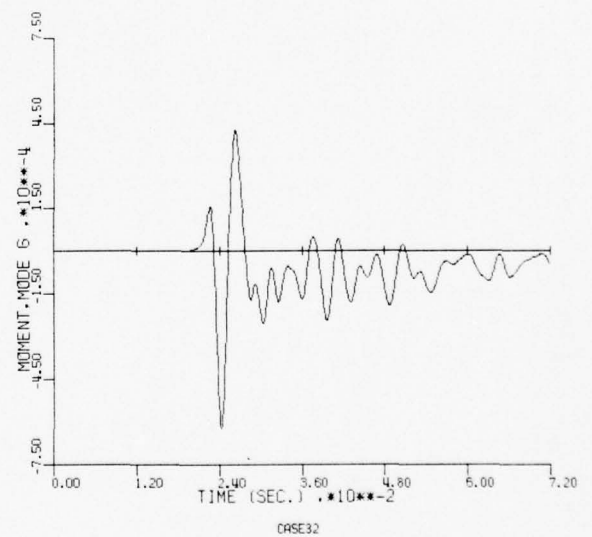
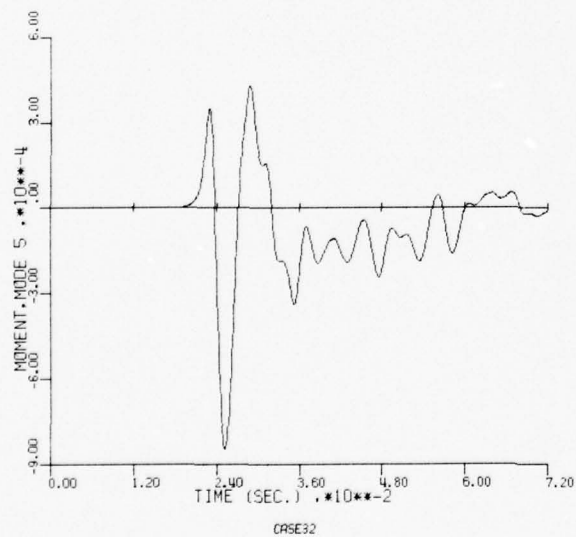
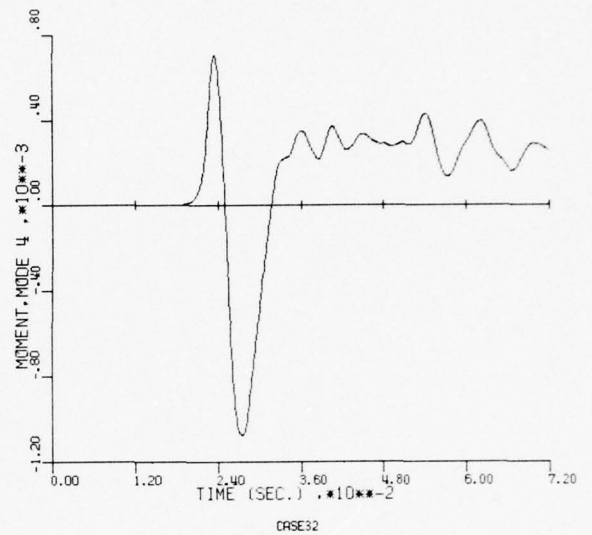
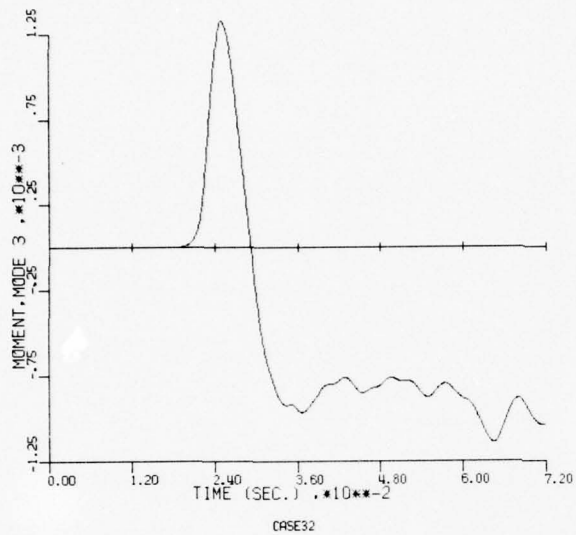


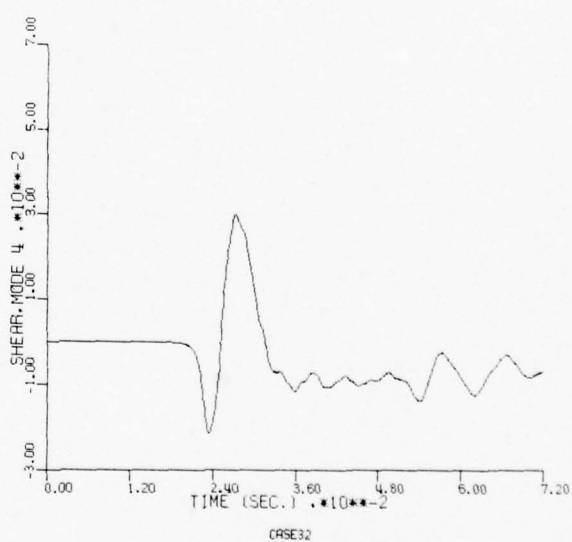
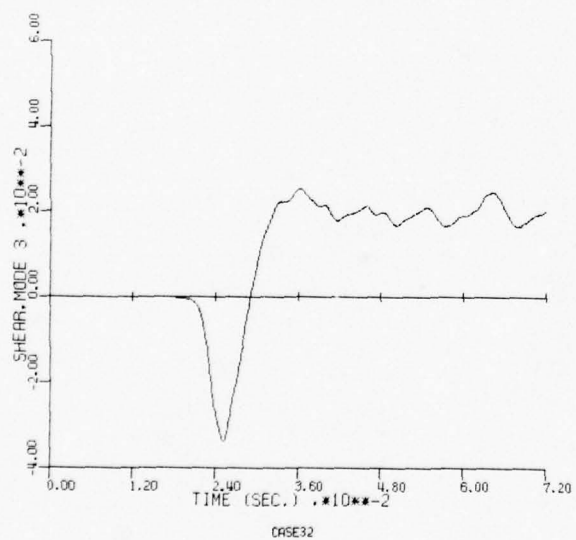
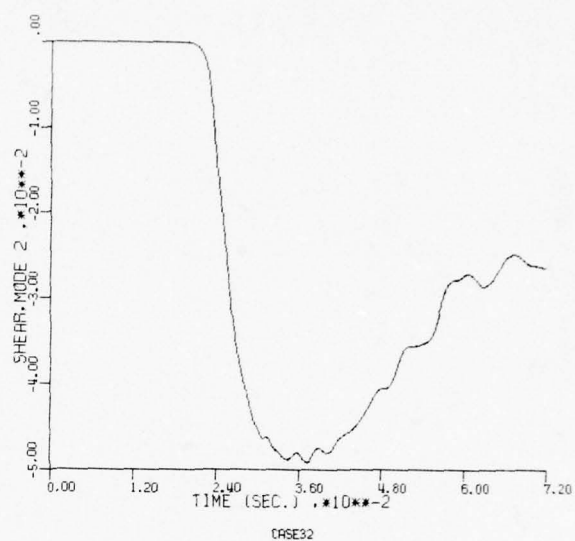
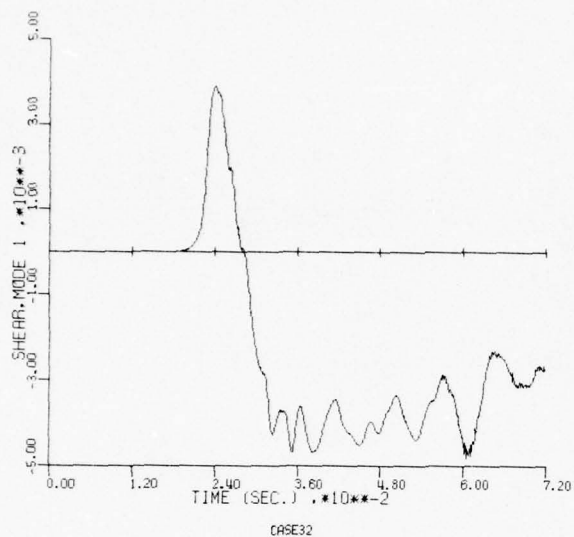
CASE32

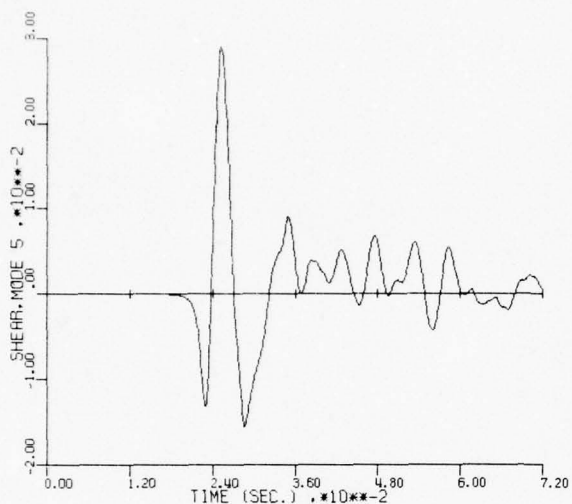


CASE32

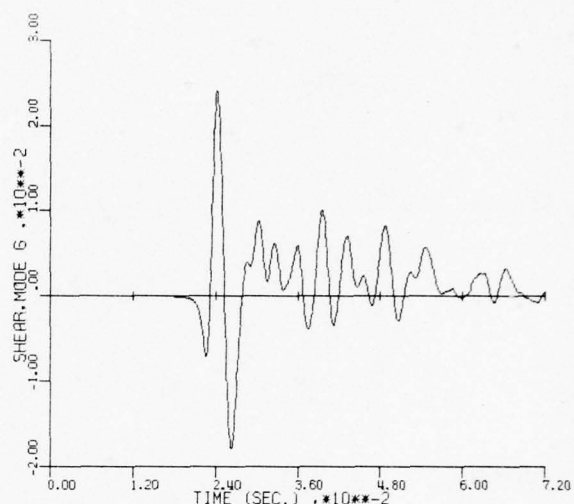




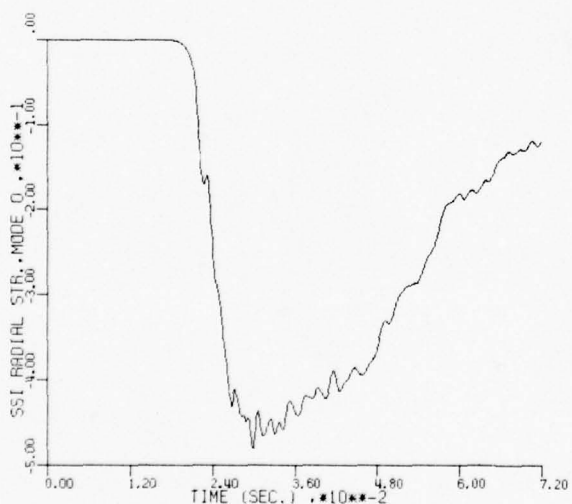




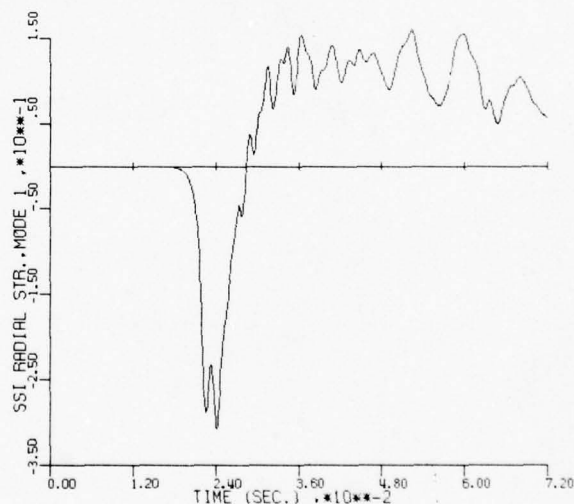
CASE32



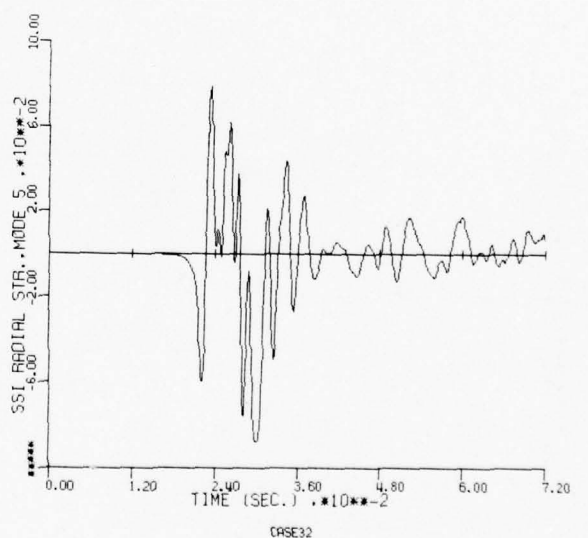
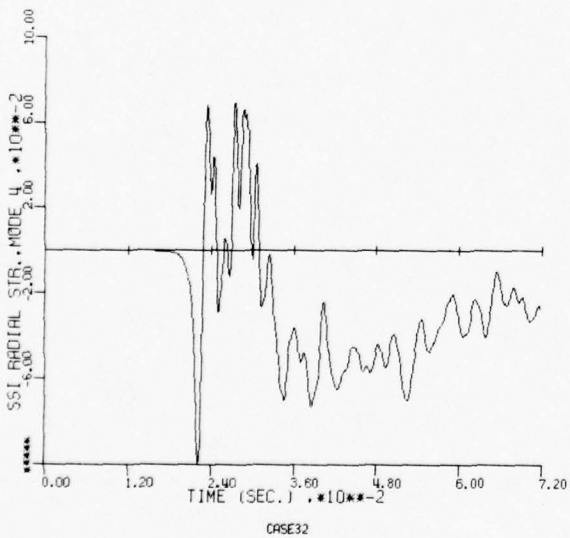
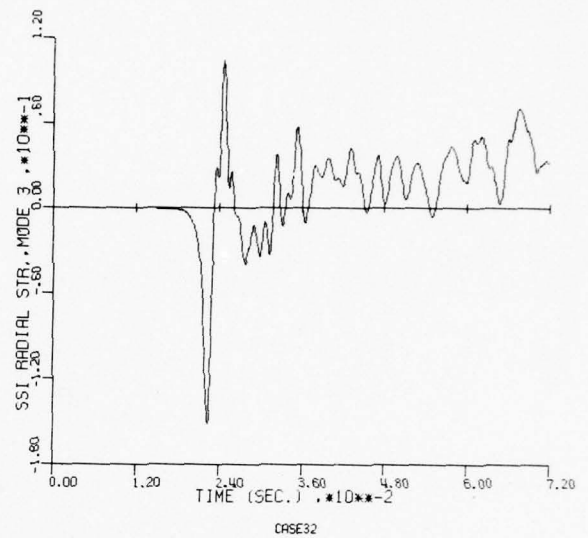
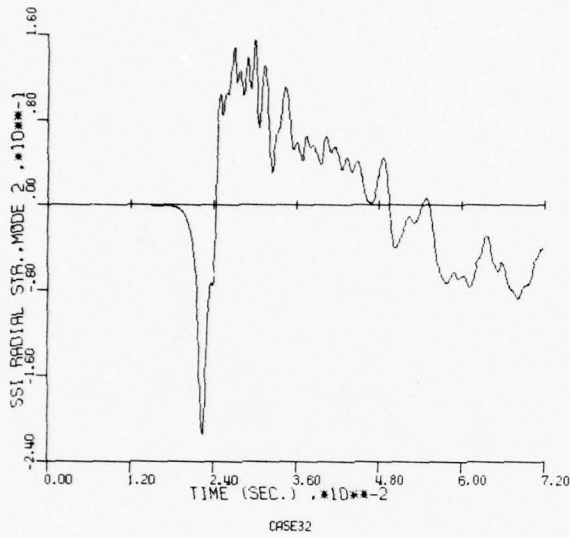
CASE32

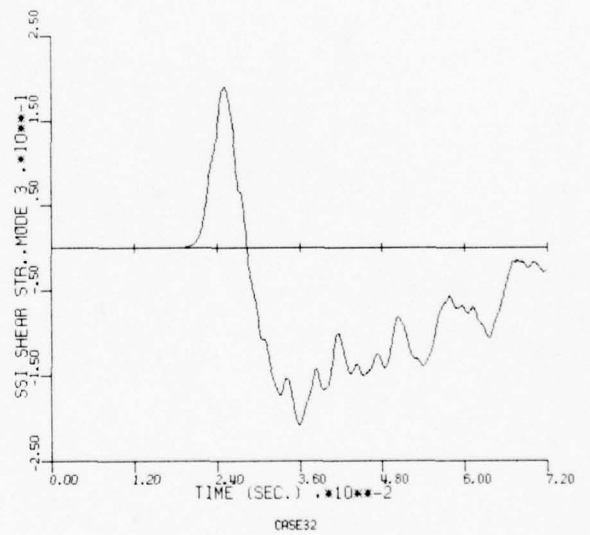
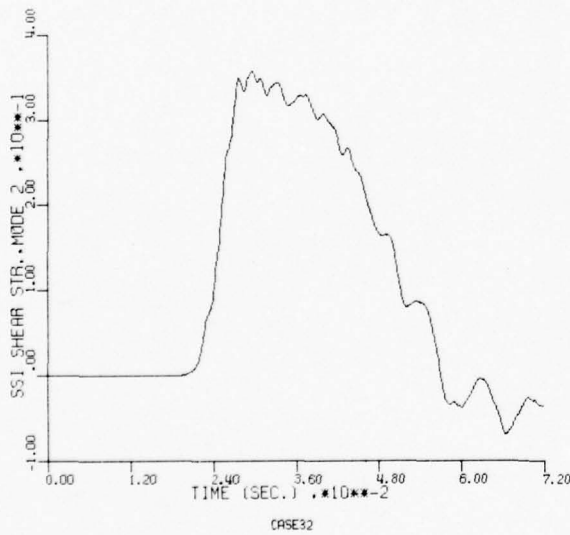
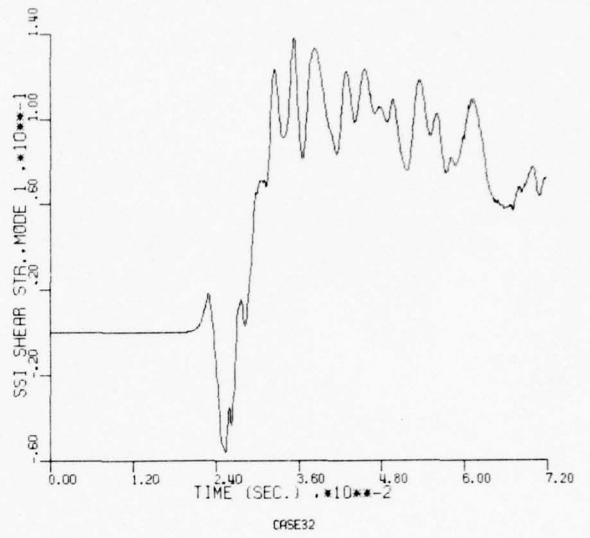
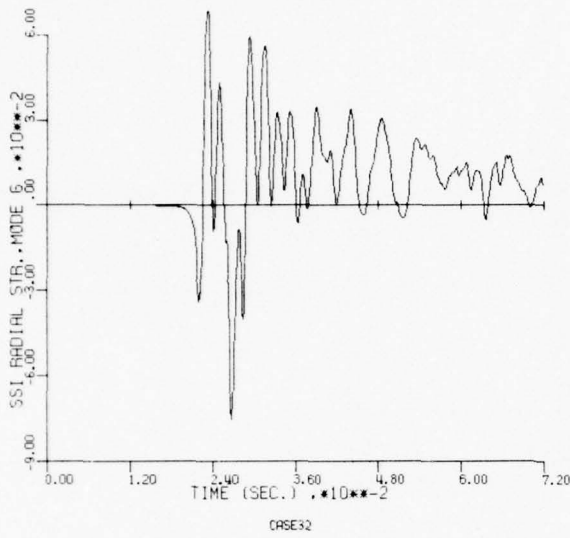


CASE32

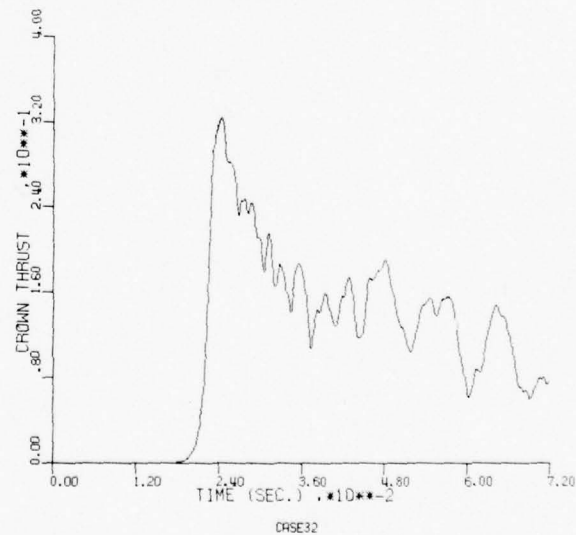
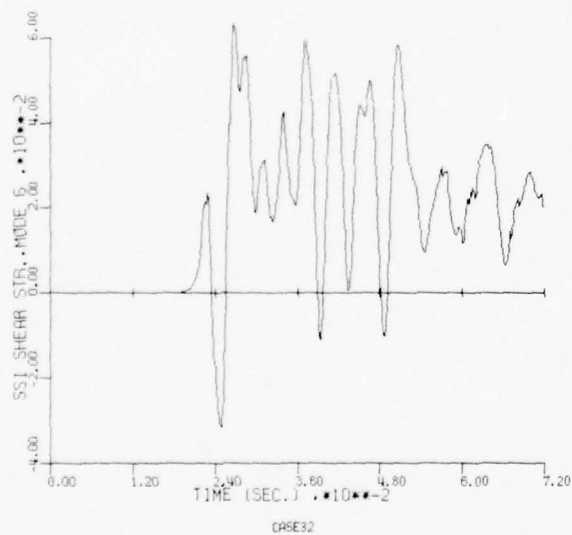
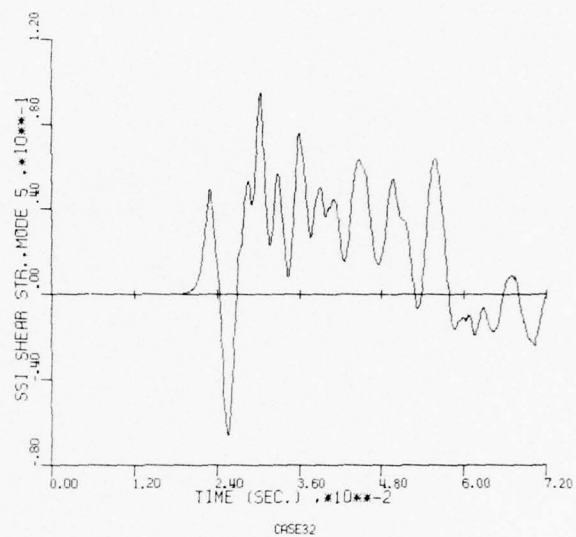
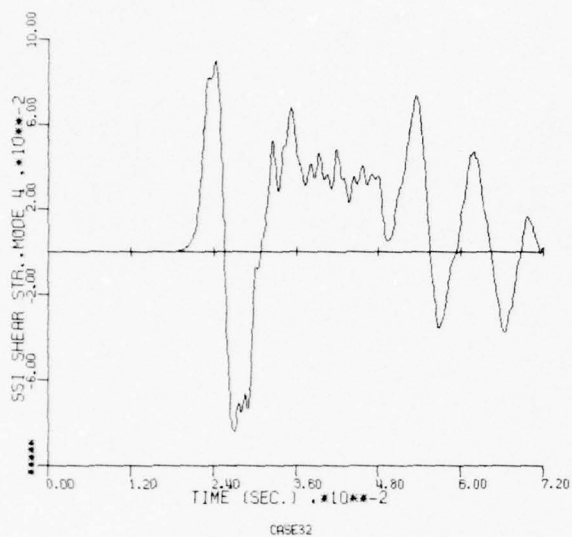


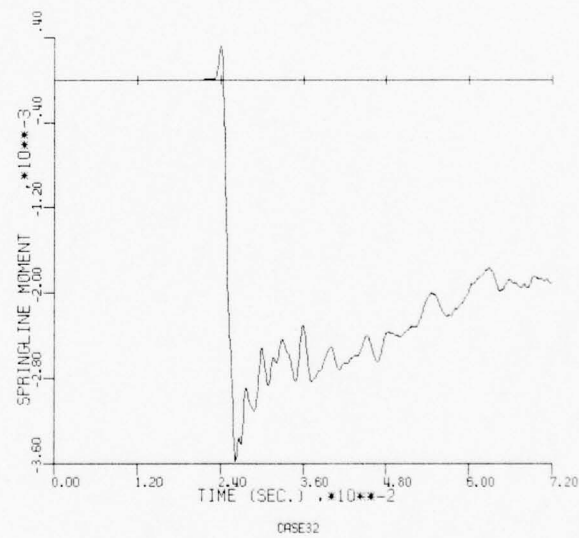
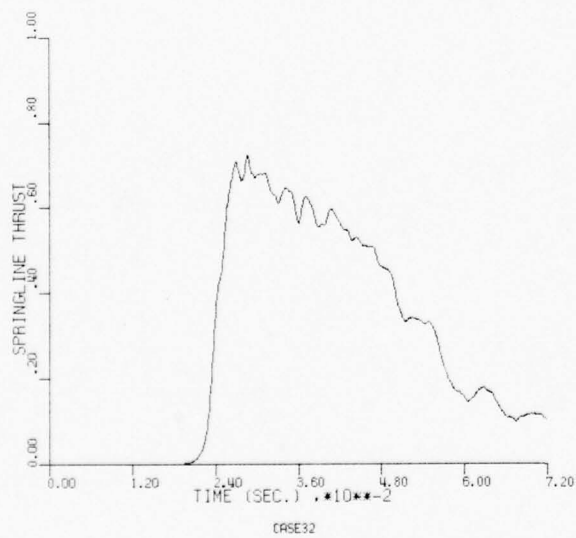
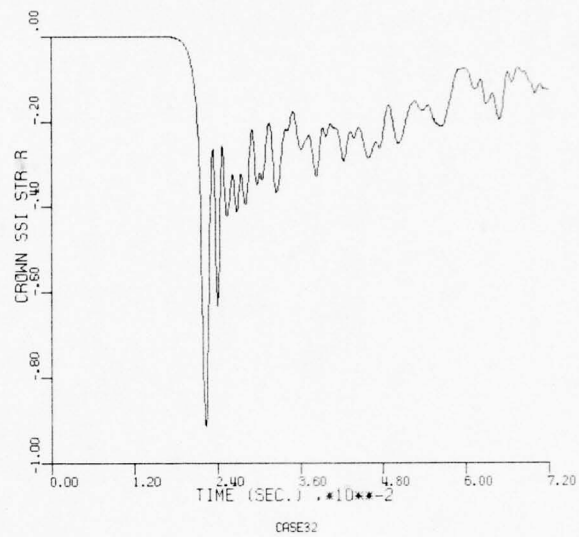
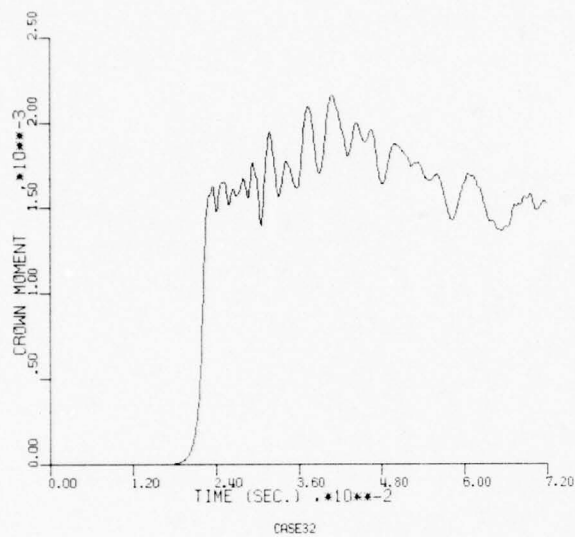
CASE32

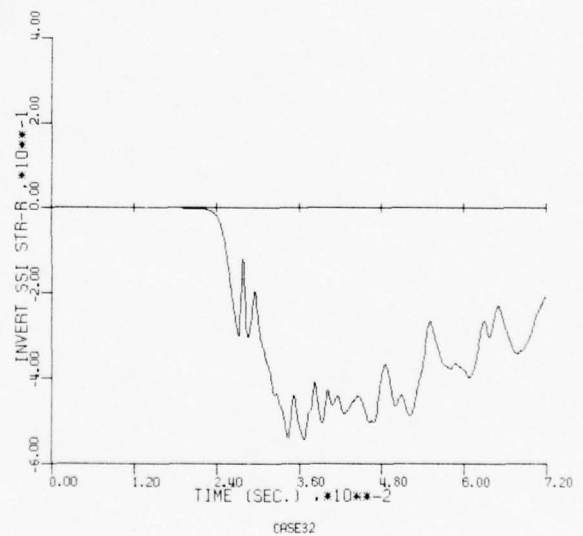
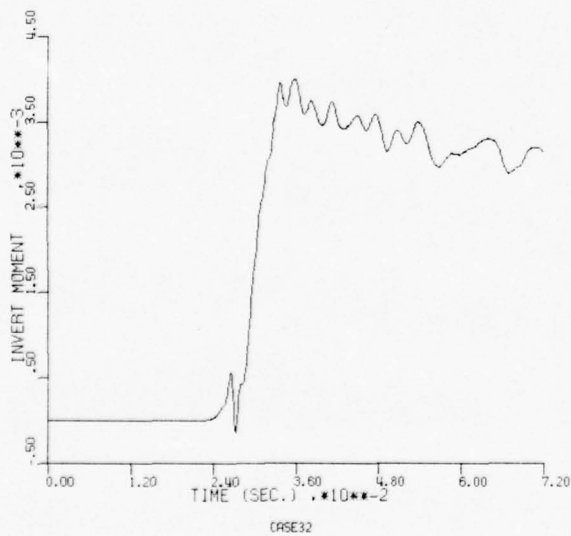
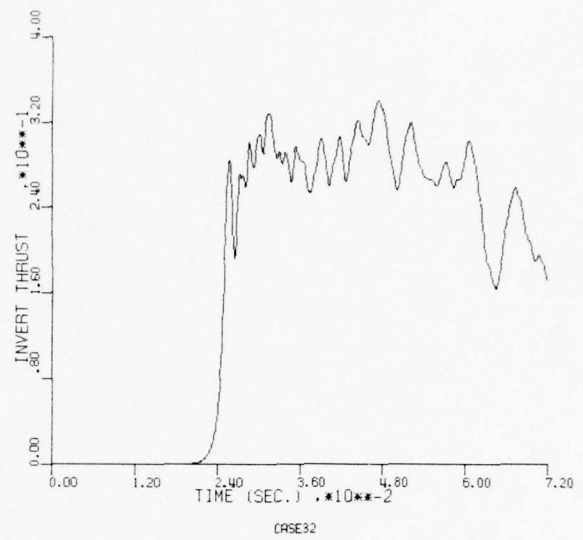
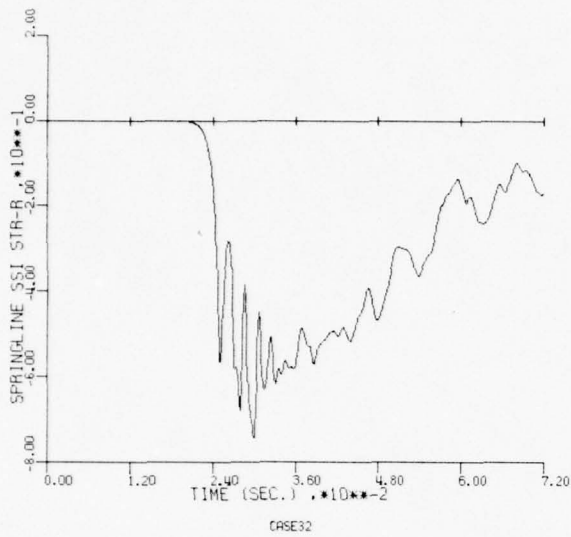












CASE33

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MIN. VALUES

		T	M	V	STR-R	STR-I	TAU-RT
CR	1	-.115809	0.0000000	-.073091	-1.878543	-.633240	-.083463
	2	-.091725	0.0000000	-.150451	-1.668748	-.586890	-.119983
	3	-.056832	0.0000000	-.237661	-1.486371	-.548391	-.193789
	4	-.030455	-.0000643	-.296817	-1.444852	-.448073	-.100534
	5	-.013024	-.0078510	-.335184	-1.130878	-.460147	-.095916
	6	-.037392	-.0216217	-.376468	-1.080806	-.389599	-.042447
	7	-.018311	-.0374502	-.354259	-.775139	-.379977	-.051065
	8	-.006021	-.0513166	-.357904	-.612891	-.356333	-.001104
	9	0.000000	-.0642405	-.333911	-.496100	-.269557	-.034852
	10	-.014110	-.0742436	-.331359	-.512369	-.235616	-.157675
	11	0.000000	-.0819282	-.294969	-.321857	-.262646	-.207900
SPR	12	0.000000	-.0866293	-.259161	-.354879	-.309993	-.280593
	13	0.000000	-.0921080	-.172390	-.409943	-.103094	-.262954
	14	0.000000	-.0993824	-.063746	-.461809	-.116973	-.307284
	15	0.000000	-.0986523	-.020477	-.495462	-.137466	-.283753
	16	0.000000	-.0872472	-.000000	-.511865	-.135284	-.299371
	17	0.000000	-.0668021	0.000000	-.515934	-.158552	-.307994
	18	0.000000	-.0399952	-.000616	-.479466	-.243446	-.317343
	19	0.000000	-.0070274	-.003243	-.568833	-.183372	-.349827
	20	-.019577	-.0000000	-.016649	-.583970	-.203705	-.329491
	21	-.104125	-.0000000	-.051992	-.592225	-.252753	-.280882
	22	-.177969	-.0000001	-.062253	-.598462	-.232133	-.163790
	23	-.243058	-.0000000	-.052485	-.655228	-.255655	-.205592
INV	24	-.280284	-.00006367	-.028252	-.695260	-.273515	-.044296

MAX. VALUES

		T	M	V	STR-R	STR-I	TAU-RT
CR	1	.631142	.0595737	.046254	.008273	.114994	.151979
	2	.650312	.0558708	.021769	0.000000	.138683	.255785
	3	.716035	.0542676	.044341	.016758	.092947	.411631
	4	.752376	.0470863	.012749	0.000000	.086800	.317339
	5	.825819	.0411852	.022642	0.000000	.120640	.373859
	6	.903210	.0332714	.016230	0.000000	.077961	.286368
	7	.937422	.0168331	.013132	.029137	.049401	.357289
	8	.955006	.0026732	.021554	0.000000	.019600	.195043
	9	.938080	.0036180	.065671	.075069	.043645	.320926
	10	.896577	.0032875	.119657	.034978	.083285	.163407
	11	.834896	.0012860	.175903	0.000000	.046712	.049061
SPR	12	.757884	.0000004	.213479	.094565	0.000000	.051633
	13	.671065	.0001295	.243438	.004516	.034698	.000000
	14	.616330	.0006188	.268089	.006750	.012525	.000000
	15	.607599	.0022904	.276295	0.000000	.043381	0.000000
	16	.575641	.0057076	.309671	0.000000	.042706	0.000000
	17	.548394	.0128625	.337338	0.000000	.047557	0.000000
	18	.490624	.0204023	.408862	0.000000	.050150	.029393
	19	.412490	.0271010	.456235	0.000000	0.000000	0.000000
	20	.317325	.0362145	.436783	0.000000	0.000000	0.000000
	21	.258694	.0550527	.406359	0.000000	0.000000	0.000000
	22	.258375	.0820233	.313401	0.000000	.175088	.064467
	23	.257381	.0996982	.205964	0.000000	.173756	.000000
INV	24	.259684	.1095606	.081610	0.000000	.189657	.072878

MIN-MAX MODAL AMPLITUDES -- CASE33

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	- .11095E+00	- .31359E+00	- .13662E+00	- .53768E-01	- .26295E-01	- .93095E-02	
MAX	.55587E+00	.37354E+00	.11658E-01	.66993E-01	.34211E-01	.26936E-01	

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN - .28878E-02	- .31714E-03	0.	- .34196E-01	- .16936E-01	- .68707E-02	- .34853E-02	
MAX .20127E-05	.70040E-03	.80085E-01	.31349E-01	.82971E-02	.58919E-02	.30055E-02	

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	- .56041E-02	- .29196E+00	- .17493E+00	- .70791E-01	- .52102E-01	- .21017E-01	
MAX 0.	.13655E-01	0.	.17447E+00	.12077E+00	.64602E-01	.40448E-01	

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN - .40110E+00	- .57046E+00	- .41396E+00	- .30004E+00	- .19183E+00	- .14436E+00	- .47654E-01	
MAX 0.	.17258E+00	.37090E-01	.18370E+00	.26922E+00	.20803E+00	.14218E+00	

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	- .10030E+00	0.	- .93037E-01	- .77581E-01	- .86417E-01	- .61424E-01	
MAX 0.	.22885E-01	.20646E+00	.14014E+00	.10926E+00	.43840E-01	.20124E-01	

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# CASE 33

## CROWN THRUST

	MODE 0	MODES 0-1	MODAL HISTORY/INPUT	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SPSS	.018802	.003566	.000554	.007157	.002090	.001234	.001889	VARIABLE
MIN.	0.000000	.145472	.627728	.609290	.967657	1.023737	.944457	.13563E-01
MAX.	.880737	1.411130	1.253240	1.055442	.984131	.979741	.995013	-.11581E+00
								.63114E+00

## CROWN MOMENT

	MODE 0	MODES 0-1	MODAL HISTORY/INPUT	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SPSS	.003850	.004032	.002407	.002273	.003706	.003162	.000733	VARIABLE
MIN.	-.002888	-.002352	0.000000	0.000000	-.000214	0.000000	0.000000	.23011E-02
MAX.	.000034	.001031	1.311912	1.265741	1.130800	1.038383	1.000323	0.
								.59574E-01

## CROWN SS1 STR-R

	MODE 0	MODES 0-1	MODAL HISTORY/INPUT	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SPSS	.008650	.002175	.000310	.007142	.001927	.009221	.002623	VARIABLE
MIN.	.213517	.487616	.609603	.851963	.944484	.984471	.995121	.34596E-01
MAX.	0.000000	2.0083646	0.000000	0.000000	0.000000	0.000000	1.182349	-.18785E+01
								.82726E-02

## SPRINGLINE THRUST

	MODE 0	MODES 0-1	MODAL HISTORY/INPUT	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SPSS	.004069	.003199	.004905	.003294	.000302	.000130	.000257	VARIABLE
MIN.	0.000000	0.000000	-.000000	-.000001	-.000004	-.000016	-.000000	.22967E-01
MAX.	.733449	.759096	.988785	1.023876	1.012708	1.023959	1.000679	0.
								.75788E+00

SPRINGLINE MOMENT

```

*****
MODE 0  MODS 0-1  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .002196  .002187  .002975  .002229  .003378  .001509  .001613
MIN.    .033335  .032857  .932896  .856081  .976968  .981416  .977706
MAX.    .000002  .000003  0.000000  0.000000  .000033  .000153  .000007
INPUT
VARIABLE
.28704E-02
-.86629E-01
.40083E-06

```

SPRINGLINE SSI STR-R

```

*****
MODE 0  MODS 0-1  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .050497  .046355  .003181  .004146  .034588  .020134  .018381
MIN.    1.130249  1.216752  1.201596  1.202768  .789172  .609065  .953043
MAX.    0.000000  0.000000  .709911  1.263880  .859734  .748527  .012165
INPUT
VARIABLE
.59265E-02
-.35488E+00
.94565E-01

```

INVERT THRUST

```

*****
MODE 0  MODS 0-1  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .004765  .036983  .031616  .006140  .003274  .001684  .000466
MIN.    0.000000  .014425  .830022  1.002277  .961434  1.005898  .970698
MAX.    2.140563  1.527393  .652883  1.014862  1.069892  .950980  1.015727
INPUT
VARIABLE
.72993E-02
-.28028E+00
.25968E+00

```

INVERT MOMENT

```

*****
MODE 0  MODS 0-1  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .000402  .000555  .005955  .009879  .008677  .002917  .000349
MIN.    4.535691  5.533868  0.000000  9.159598  0.000000  .331094  2.311794
MAX.    .000019  0.000000  .709991  1.015925  1.016997  .987510  .988091
INPUT
VARIABLE
.27439E-02
-.63669E-03
.10956E+00

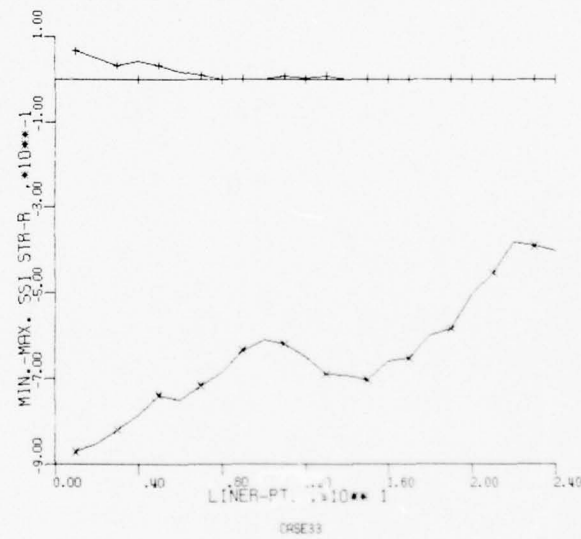
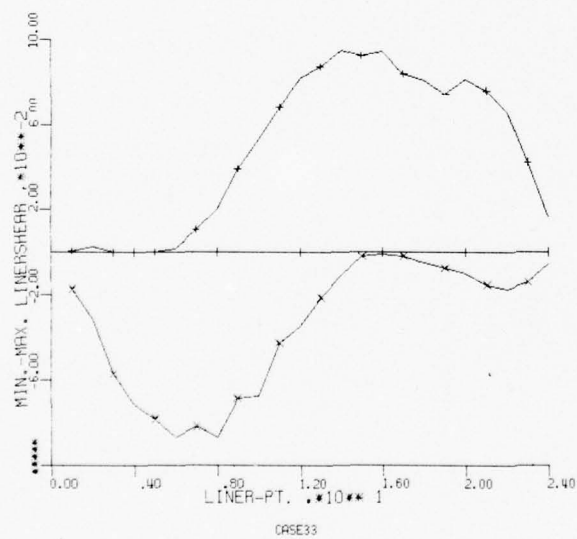
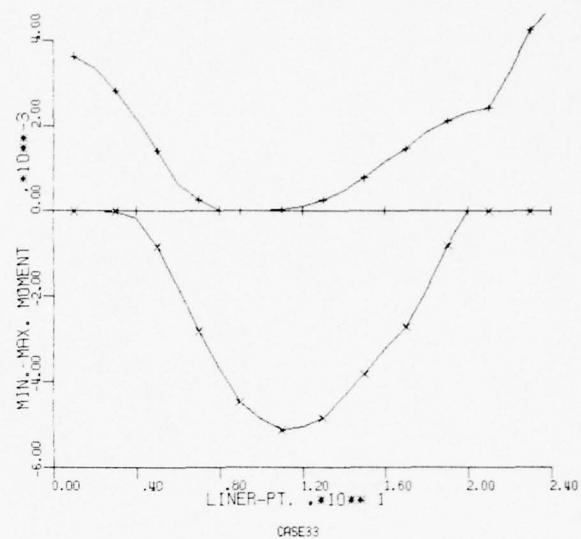
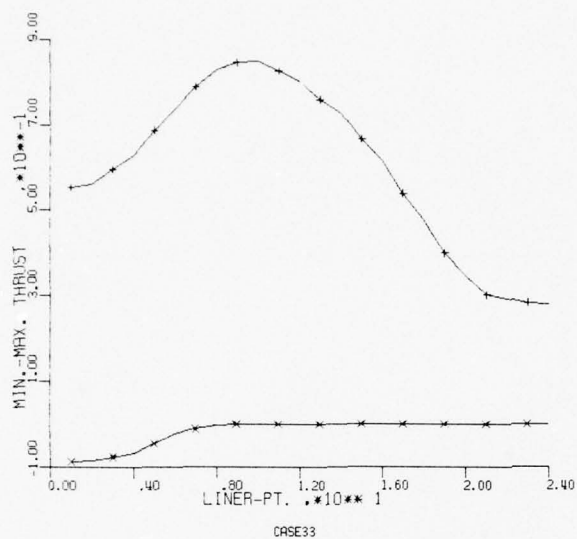
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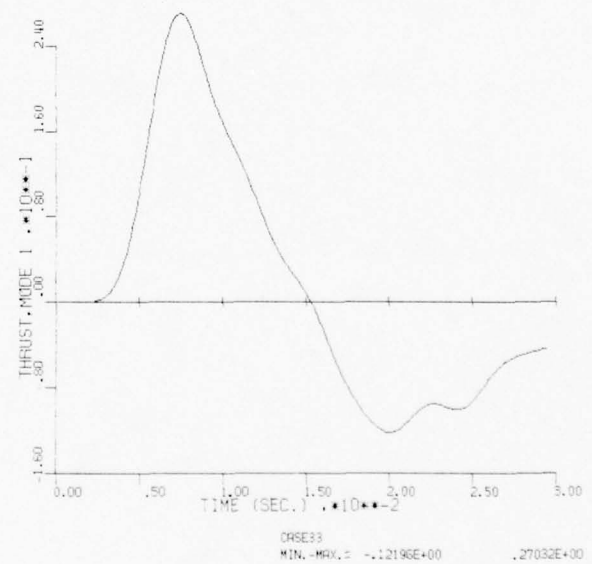
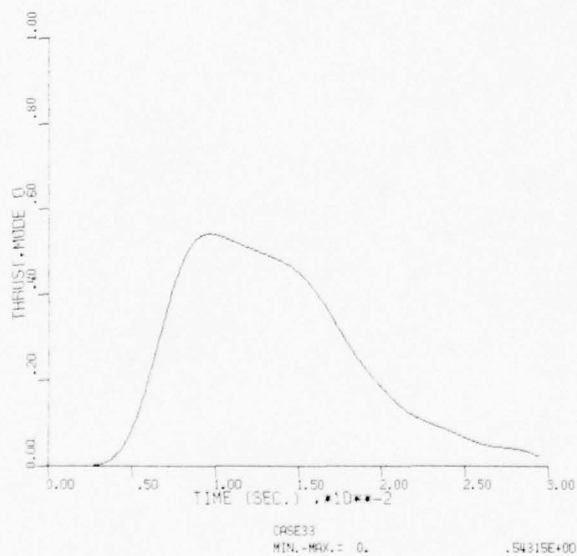
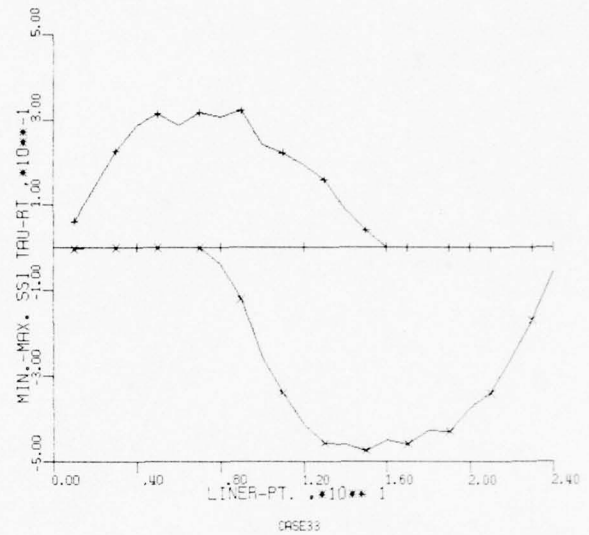
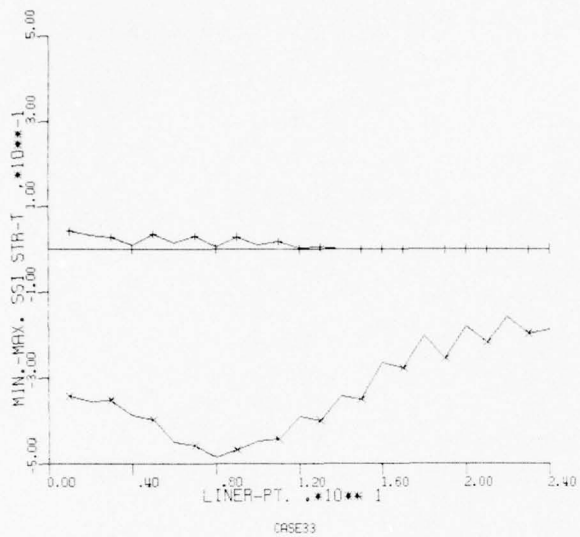
INVERT SSI STR-R

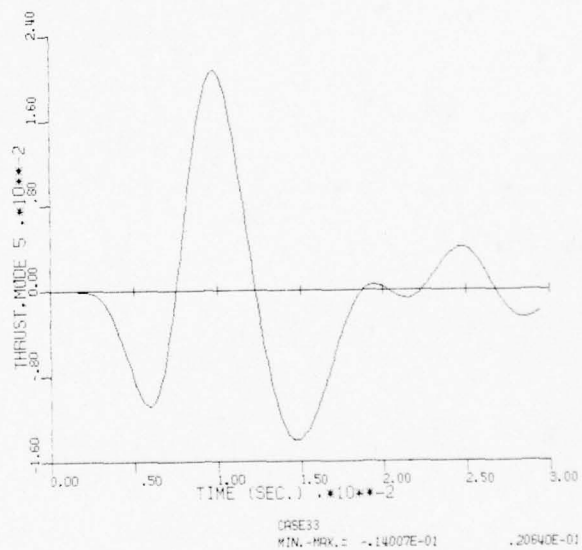
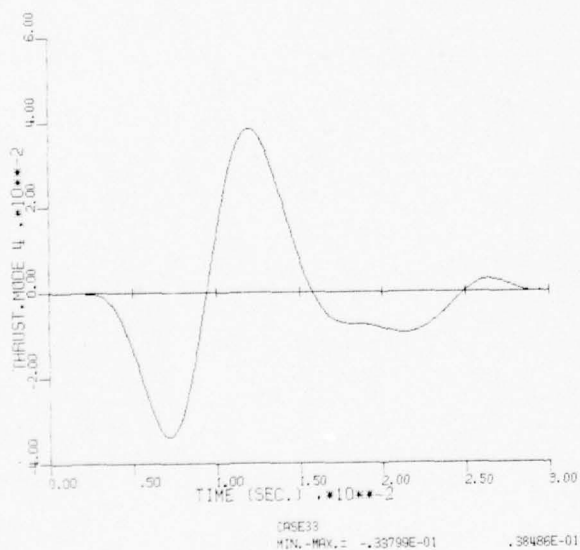
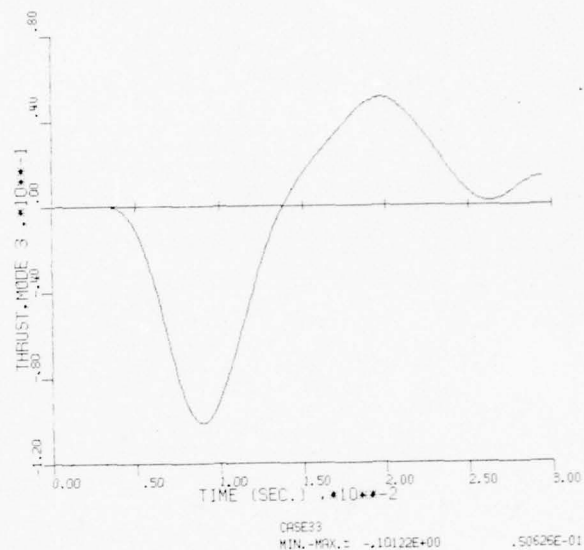
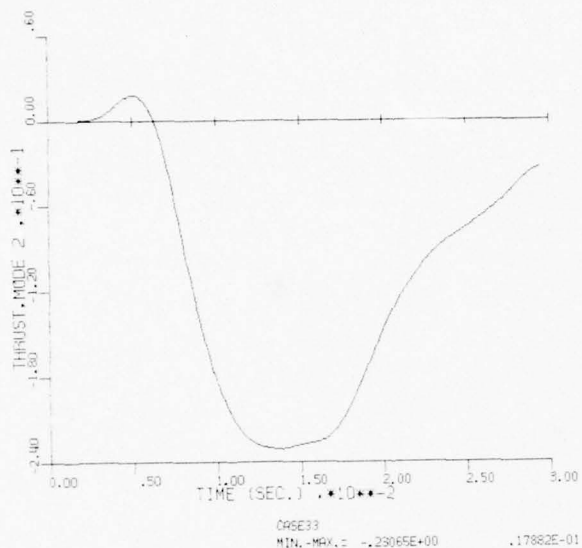
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*****
MODE 0  MODS 0-1  MODAL HISTORY/INPUT  VARIABLE 0-4  MODES 0-5  MODES 0-6
SRSS    .028266  .005391  .012539  .010783  .000236  .015649  .029590
MIN.    .576909  .555442  .851691  1.062240  .997517  .972644  .940659
MAX.    0.000000  .230606  0.000000  .115677  .043303  .027886  .060717
INPUT
VARIABLE
.16373E-01
-.69526E+00
0.

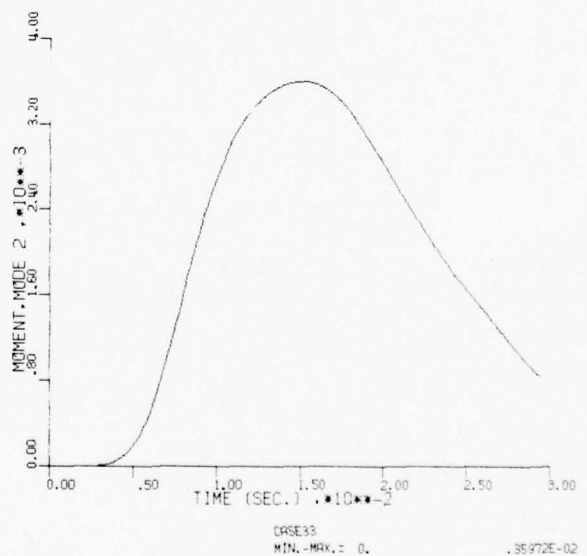
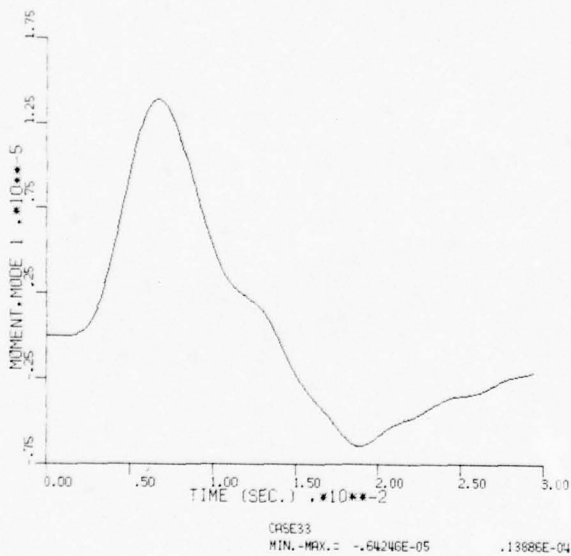
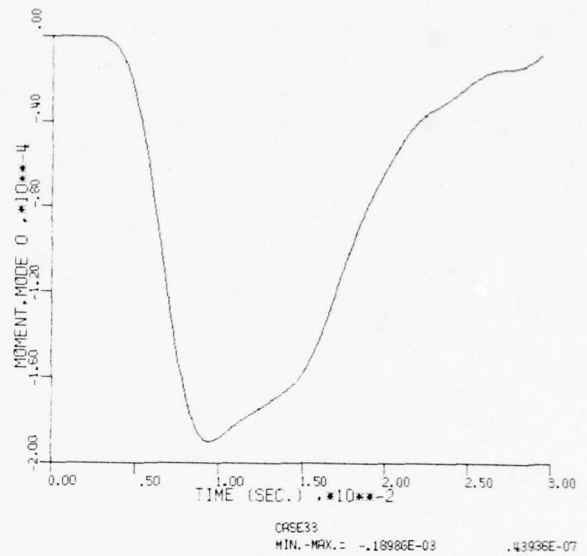
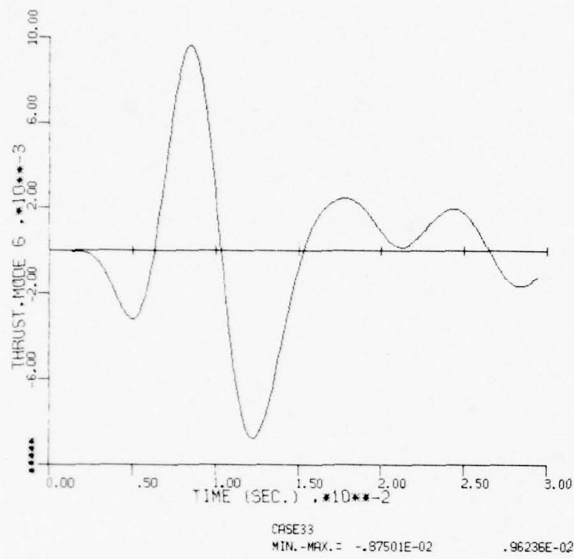
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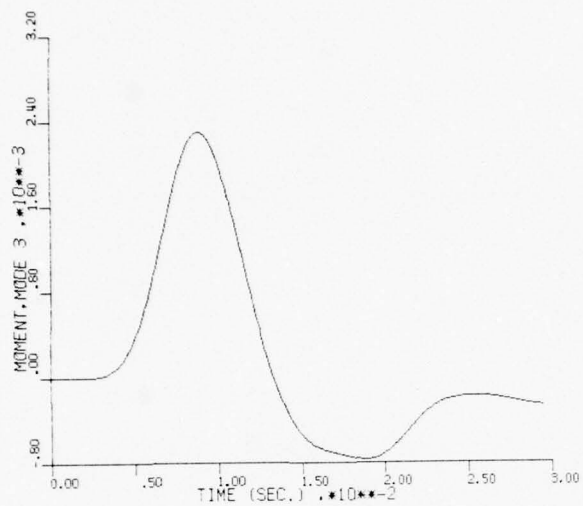




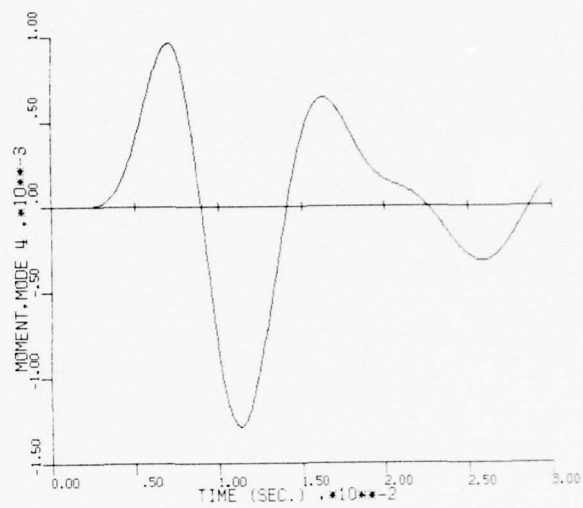




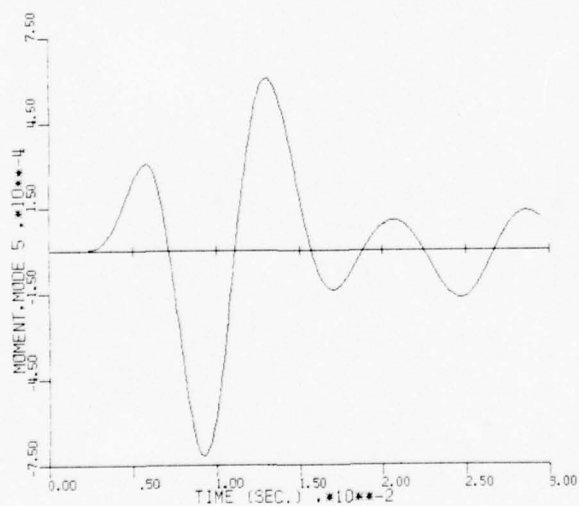




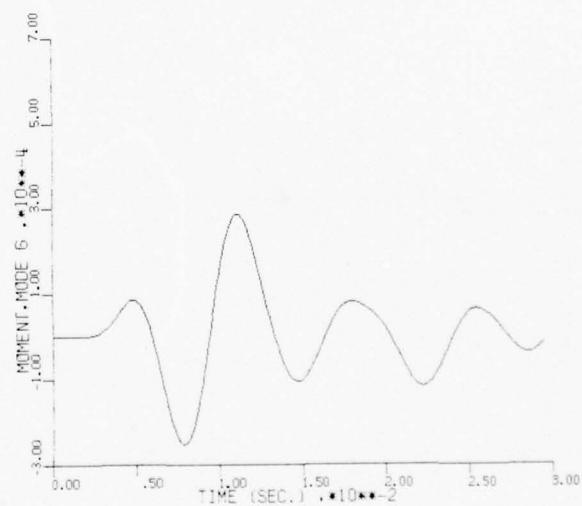
CASE33  
MIN. - MAX. =  $-1.76578\text{E}-03$   $.22958\text{E}-02$



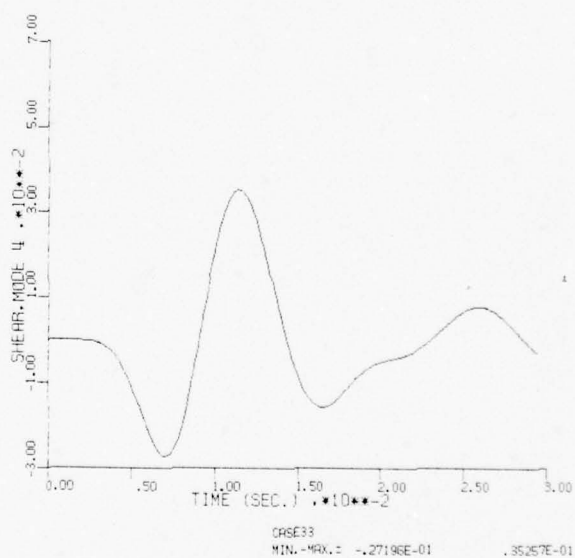
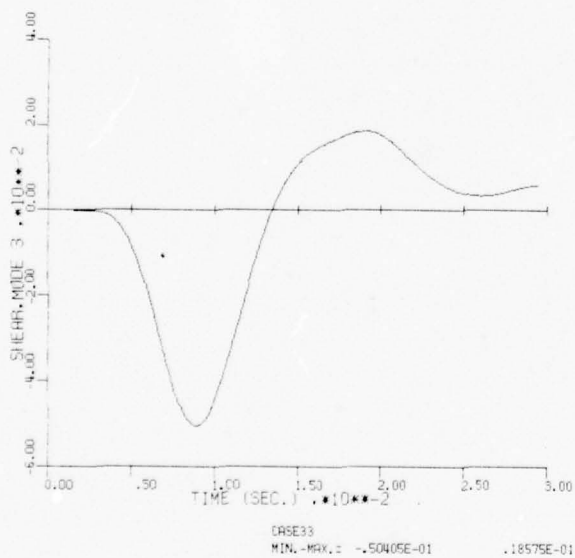
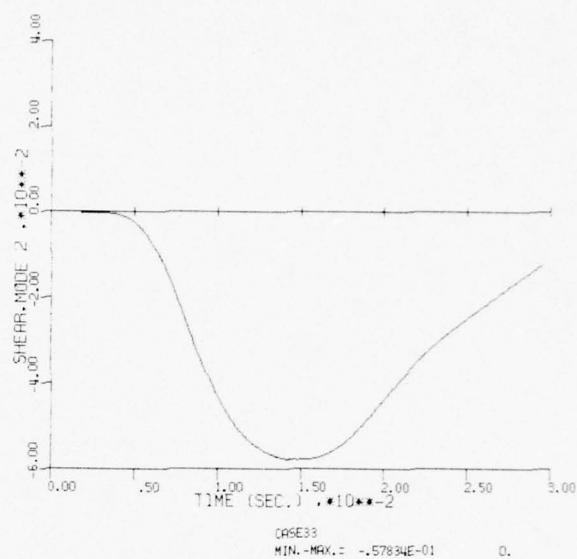
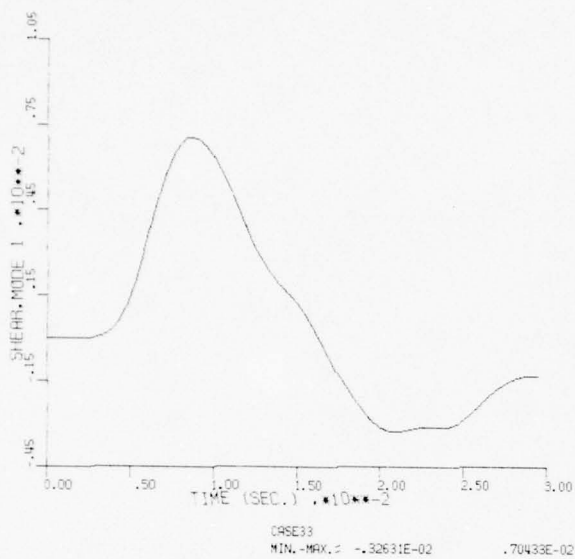
CASE33  
MIN. - MAX. =  $-1.12850\text{E}-02$   $.95942\text{E}-03$

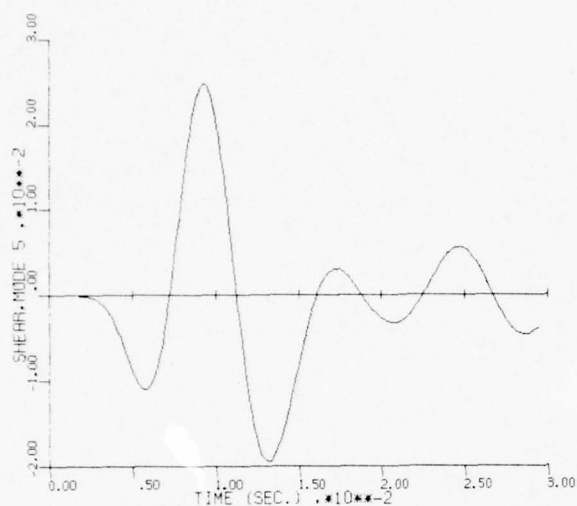


CASE33  
MIN. - MAX. =  $-1.71621\text{E}-03$   $.60483\text{E}-03$

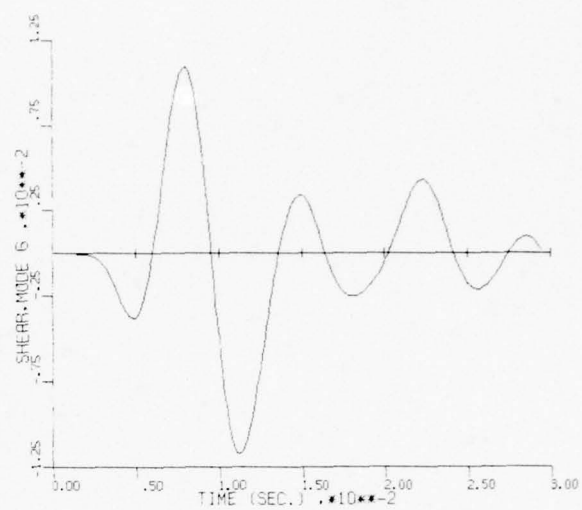


CASE33  
MIN. - MAX. =  $-1.25203\text{E}-03$   $.28685\text{E}-03$

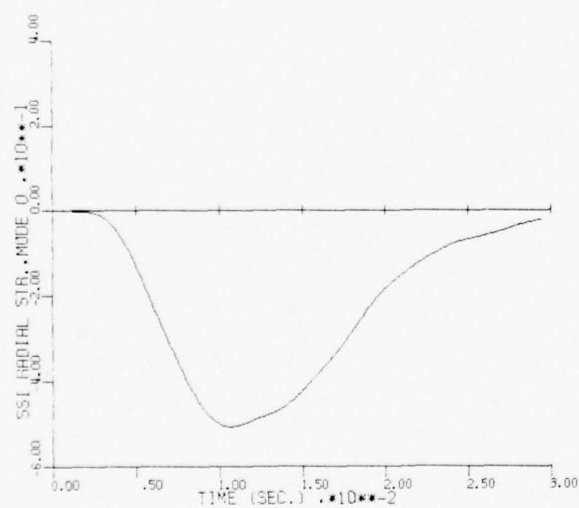




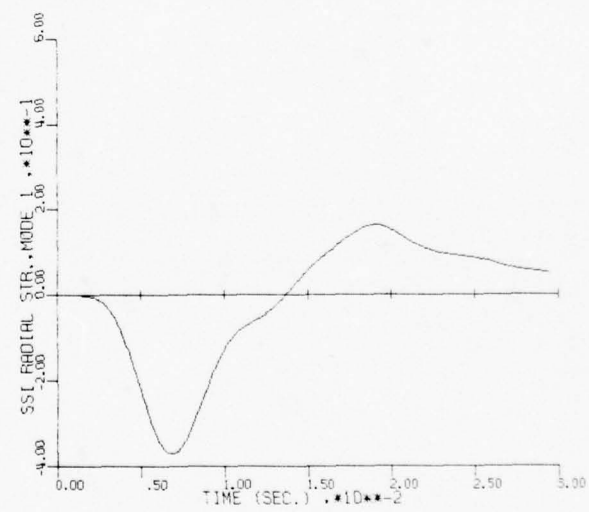
CASE33  
MIN.-MAX.: -.19428E-01 .24716E-01



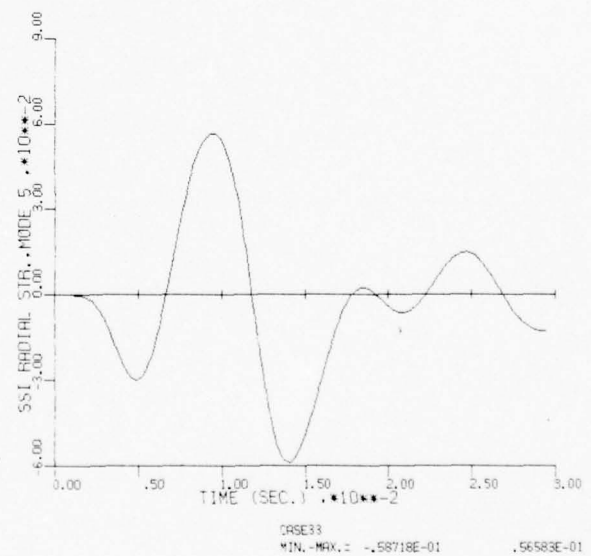
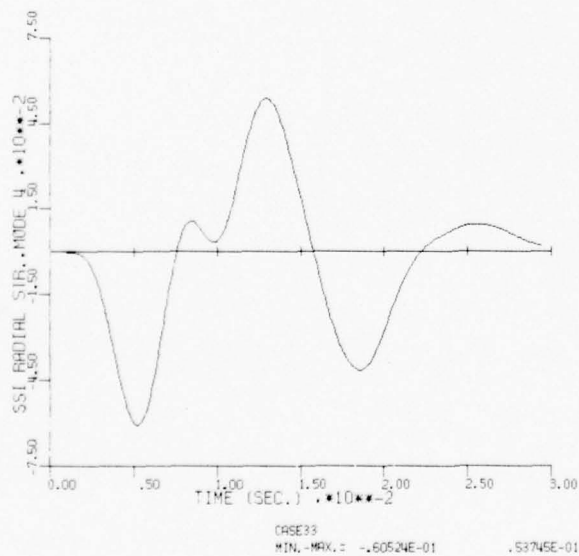
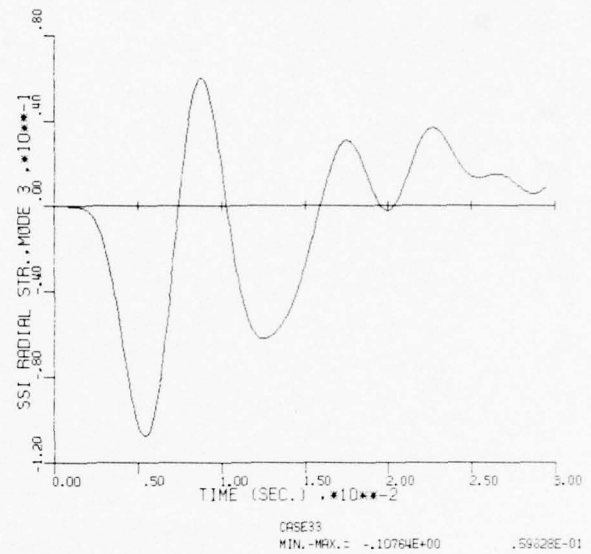
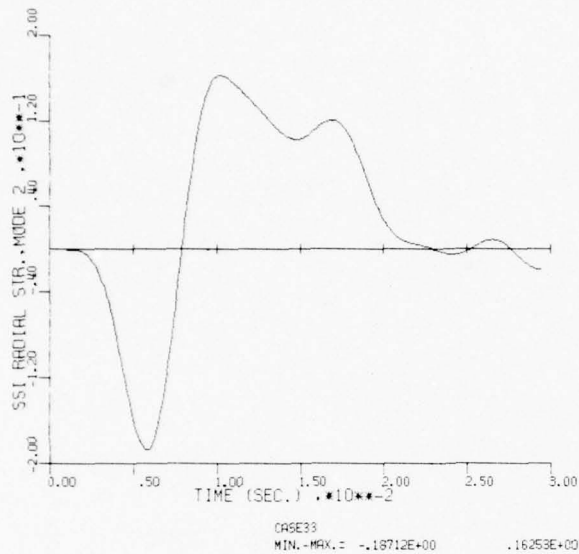
CASE33  
MIN.-MAX.: -.11723E-01 .10921E-01



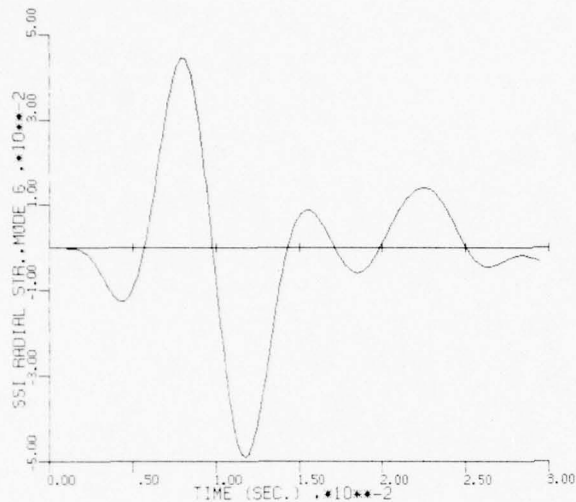
CASE33  
MIN.-MAX.: -.50624E+00 0.



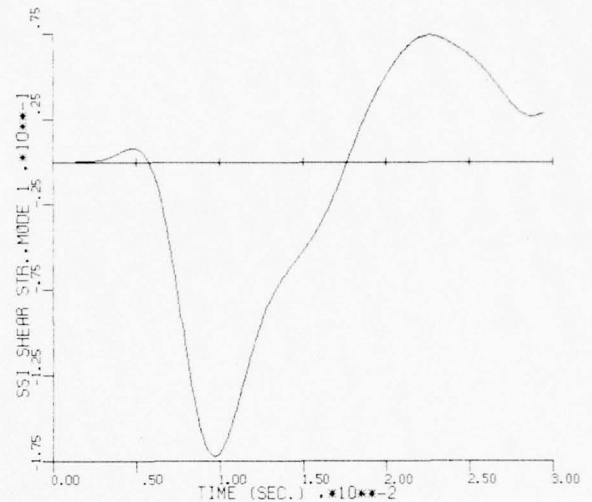
CASE33  
MIN.-MAX.: -.37058E+00 .16399E+00



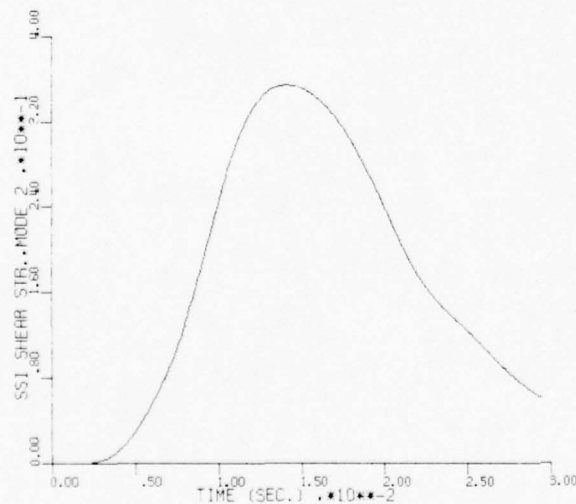




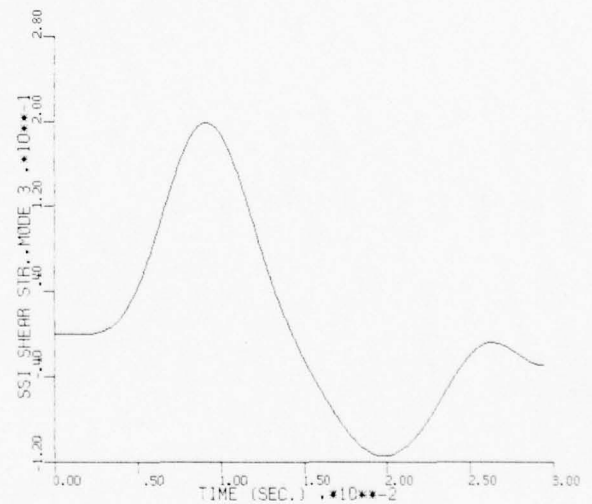
CASE33  
MIN.-MAX. = -.48885E-01 .44516E-01



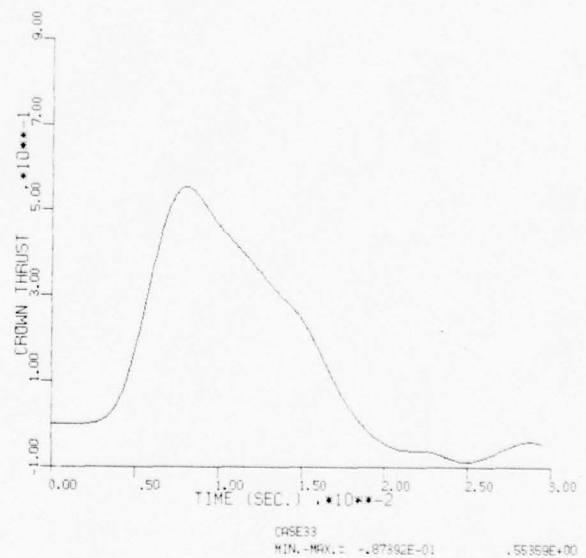
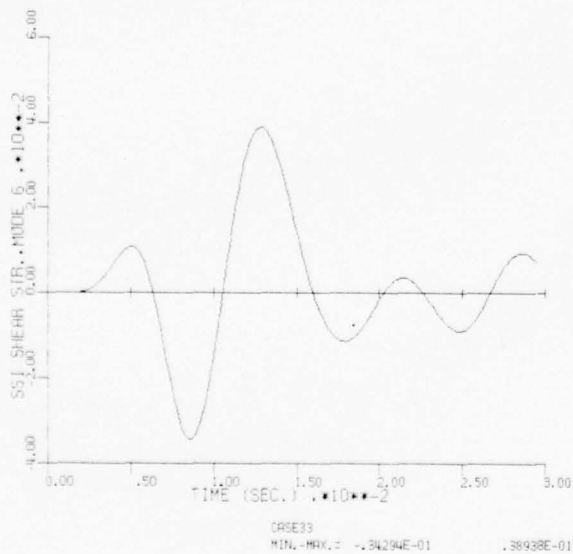
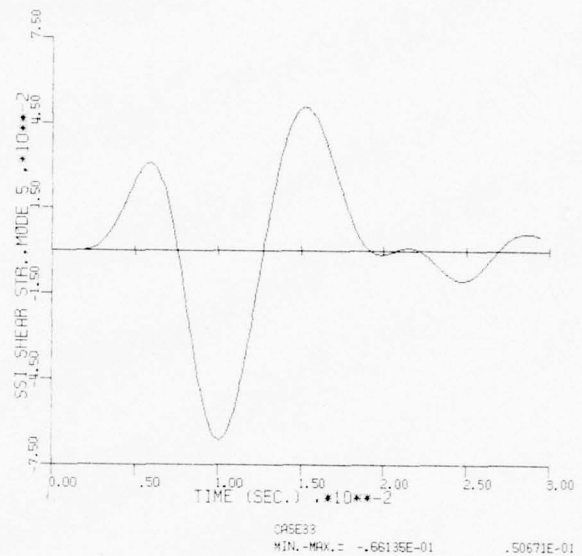
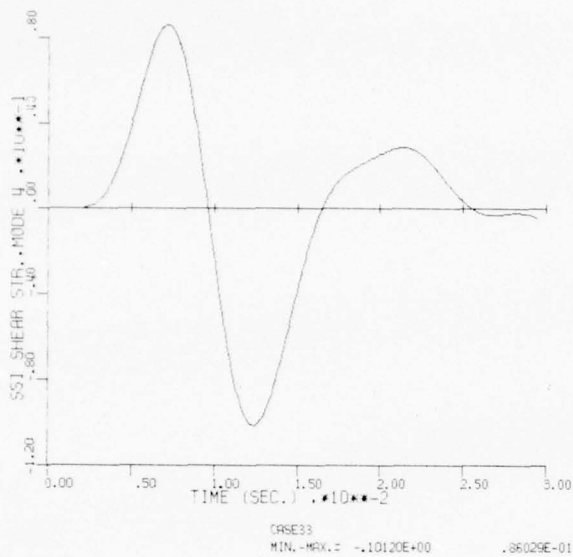
CASE33  
MIN.-MAX. = -.17212E+00 .73968E-01

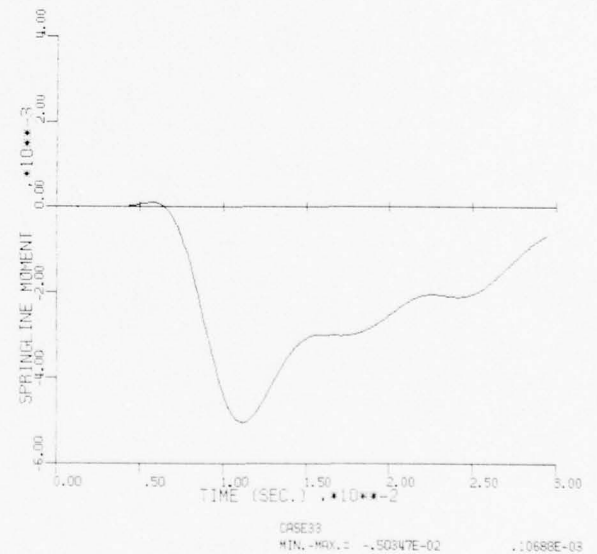
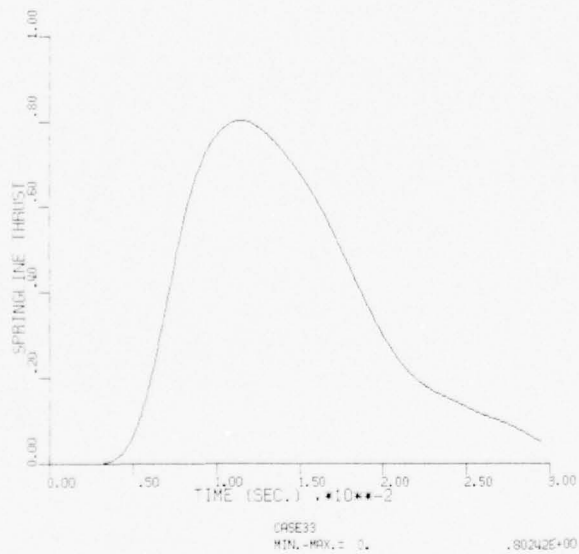
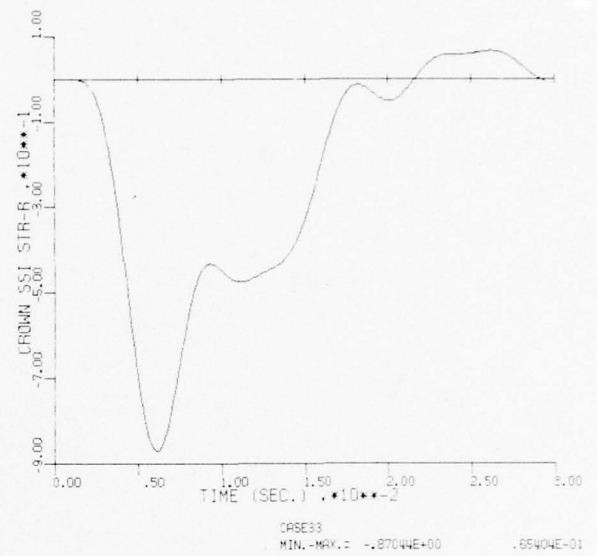
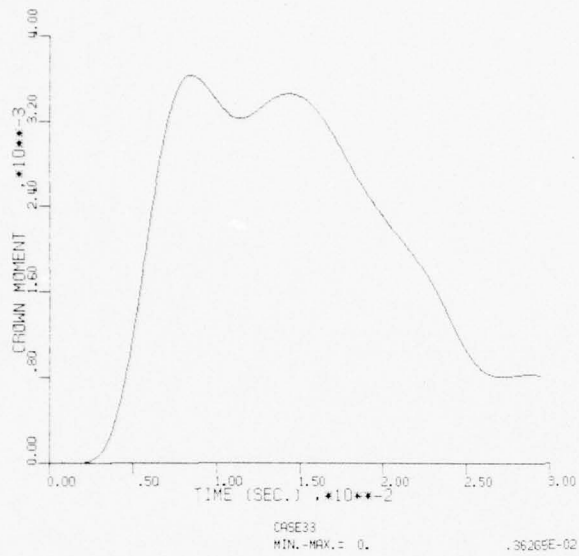


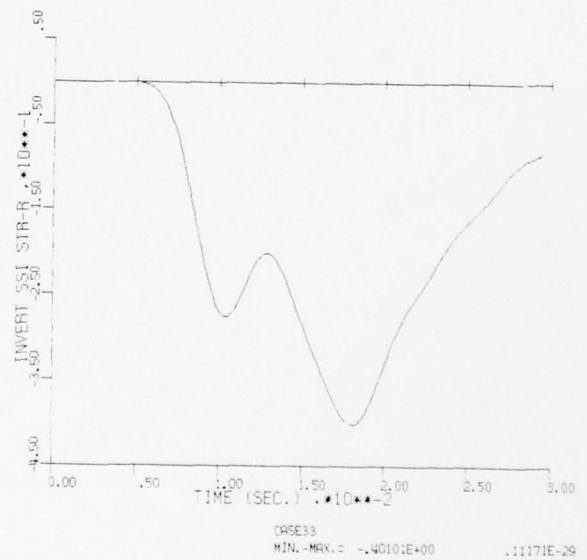
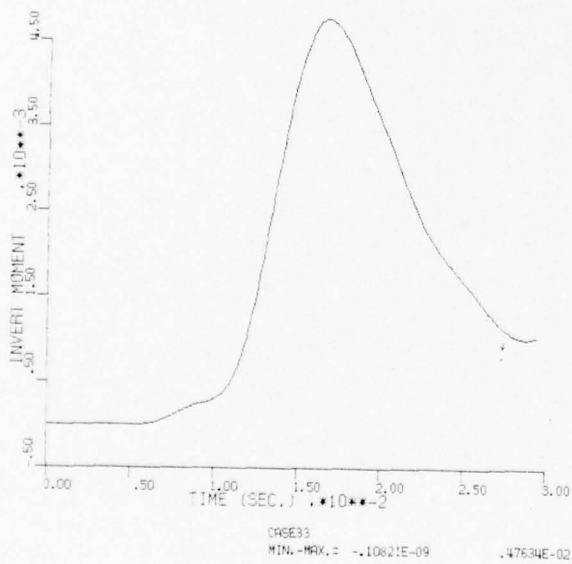
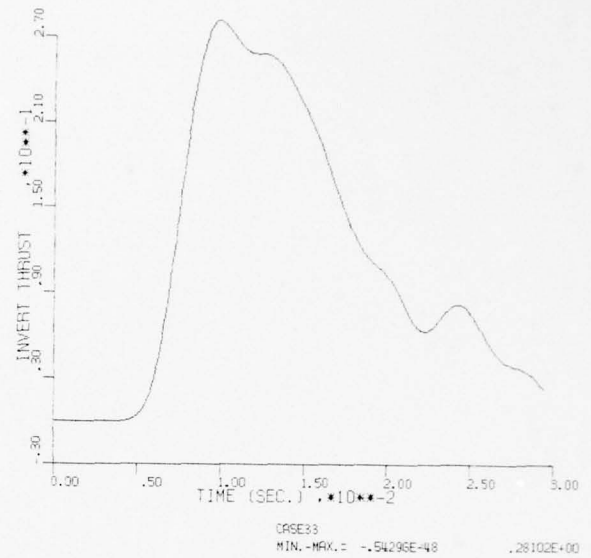
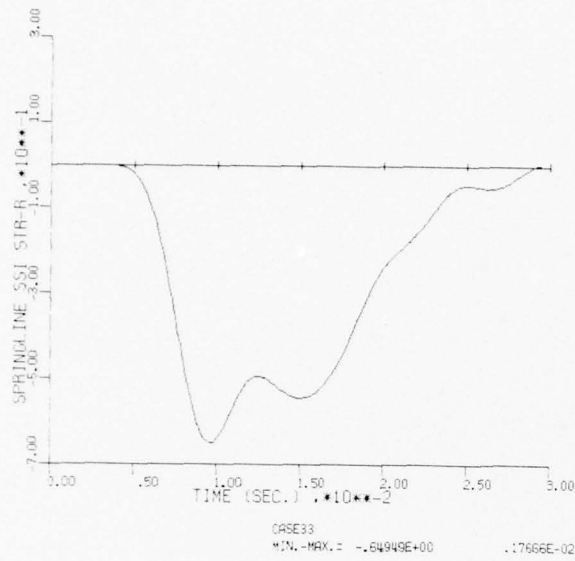
CASE33  
MIN.-MAX. = 0. .35432E+00



CASE33  
MIN.-MAX. = -.11415E+00 .19878E+00







CASE34

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## MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	0.000000	0.000000	-.016973	-1.142714	-.517867	-.025315
	2	0.000000	0.000000	-.027598	-1.178241	-.526254	-.049829
	3	0.000000	-.0000013	-.057190	-1.050429	-.449514	-.006002
	4	0.000000	-.0003962	-.069629	-.830486	-.484066	-.018893
	5	0.000000	-.0010069	-.062481	-.739041	-.518866	-.020757
	6	0.000000	-.0012575	-.099483	-.716670	-.581703	-.004711
	7	0.000000	-.0019229	-.085497	-.731220	-.637601	-.004633
	8	0.000000	-.0019013	-.084274	-.761709	-.743111	-.051051
	9	0.000000	-.0020762	-.063404	-.730575	-.600268	-.111303
	10	0.000000	-.0016507	-.087227	-.792639	-.683344	-.226205
SPR	11	0.000000	-.0013275	-.044158	-.727605	-.673888	-.294594
	12	0.000000	-.0010404	-.071871	-.609546	-.849436	-.327324
	13	0.000000	-.0010237	-.037893	-.554914	-.744937	-.395294
	14	0.000000	-.0005308	-.045645	-.808532	-.620512	-.337814
	15	-.000000	-.0011203	-.028386	-.660853	-.565443	-.418637
	16	-.000000	-.0007266	-.016985	-.519307	-.442356	-.376719
	17	-.000000	-.0007697	-.011566	-.582584	-.436379	-.403555
	18	-.000000	-.0014333	-.006895	-.504589	-.302169	-.341246
	19	-.000000	-.0005790	-.008600	-.542347	-.302795	-.364688
	20	0.000000	-.0000126	-.010863	-.444654	-.201254	-.287635
INV	21	-.000000	-.0000187	-.012287	-.475068	-.247345	-.307951
	22	-.000000	-.0000000	-.015630	-.357249	-.233243	-.264975
	23	-.000000	-.0000000	-.010971	-.349042	-.313971	-.263026
INV	24	0.000000	-.0000000	-.013210	-.328235	-.309547	-.197810

## MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.312143	.0021458	.018171	.014859	.013077	.177265
	2	.318839	.0021476	.017386	.034155	.015663	.303352
	3	.360622	.0023012	.008334	.011420	.017139	.372778
	4	.387149	.0018878	.006816	.014504	.027832	.369286
	5	.439144	.0020852	.015143	.019920	.013130	.376434
	6	.486269	.0014822	.012633	.032161	.029521	.389885
	7	.533801	.0015515	.025106	.012046	.017650	.373147
	8	.607153	.0011712	.030311	.016829	.027057	.364545
	9	.639978	.0006449	.043495	0.000000	0.000000	.399506
	10	.690437	.0010036	.048722	0.000000	.037090	.272627
SPR	11	.701159	.0009987	.048698	0.000000	.009455	.251325
	12	.708094	.0008520	.067650	.010745	.013341	.252421
	13	.679502	.0005873	.057443	.016920	.002429	.207269
	14	.680331	.0007835	.064062	0.000000	0.000000	.191335
	15	.636930	.0010189	.055971	0.000000	.012022	.126005
	16	.616546	.0011084	.059062	.009517	.015719	.045480
	17	.551155	.0012109	.049888	0.000000	0.000000	.000590
	18	.513117	.0013479	.060092	0.000000	.000000	.000000
	19	.441390	.0016244	.053371	.041635	.020746	.046581
	20	.396796	.0016874	.060199	.019905	.038891	.031912
INV	21	.341420	.0017042	.039511	0.000000	.000000	0.000000
	22	.326147	.0022305	.035037	0.000000	0.000000	.020003
	23	.312041	.0022993	.019280	0.000000	0.000000	.000000
INV	24	.314448	.0024504	.005851	0.000000	0.000000	.000000



MIN-MAX MODAL AMPLITUDES -- CASE 34

LINER THRUST PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.96228E-01	-.22139E+00	-.11022E+00	-.40007E-01	-.26196E-01	-.22651E-01
MAX	.45545E+00	.19853E+00	.35469E-01	.64810E-01	.26875E-01	.19335E-01	.20245E-01

LINER MOMENT PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.21500E-04	0.	0.	-.71236E-03	-.38644E-03	-.58762E-03	-.54727E-03
MAX	.86706E-03	.55508E-03	.10123E-02	.73283E-03	.59188E-03	.42345E-03	.28847E-03

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.59326E-02	-.26239E-01	-.17723E-01	-.17448E-01	-.17175E-01	-.18802E-01
MAX	0.	.26590E-02	0.	.23570E-01	.17658E-01	.19232E-01	.17658E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.44254E+00	-.36438E+00	-.28073E+00	-.20004E+00	-.13354E+00	-.10834E+00	-.12137E+00
MAX	0.	.13937E+00	.17762E+00	.12639E+00	.10435E+00	.11311E+00	.91935E-01

SSI SHEAR STR. PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.44667E-01	0.	-.14918E+00	-.73284E-01	-.55078E-01	-.42319E-01
MAX	0.	.63612E-01	.35957E+00	.20115E+00	.88830E-01	.63315E-01	.62225E-01

CROWN THRUST

	***** MODAL HISTORY/INPUT *****			***** VARIABLE *****			***** INPUT *****
	MODES 0-1	MODES 0-2	MODES 0-3	MODES 0-4	MODES 0-5	MODES 0-6	VARIABLE
SRSS	.017466	.001373	.000216	.000879	.000108	.000901	.75475E-02
MIN.	0.000000	0.000000	-.011532	0.000000	0.000000	0.000000	0.
MAX.	1.459097	1.001466	1.266367	1.107840	.925752	.947353	.31214E+00

CROWN MOMENT

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.003340	.001713	.014567	.004745	.009842	.005465	.001279	.001279	.65516E-04
MIN.	-.000022	-.000012	0.000000	0.000000	0.000000	0.000000	0.000000	0.000000	0.
MAX.	.404068	.563743	.893506	1.138568	1.082258	1.006810	1.023410	1.023410	.21458E-02

CROWN SSL STR-R

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SPSS	.014790	.005876	.009190	.005227	.007055	.005226	.005239	.005239	.15486E+01
MIN.	.367269	.518526	.738293	.902445	.995704	1.049921	1.067533	1.067533	-.11427E+01
MAX.	0.000000	.263348	1.266528	2.523528	.673584	.335183	.282115	.282115	.14859E+01

## SPRINGLINE THRUST

	MODE 0	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SIRSS	.001023	.001420	.000822	.000904	.001577	.001475	.001177	.001177	VARIABLE .20040E+01
MIN.	0.000000	0.000000	-0.000000	-0.000001	-0.000007	-0.000024	-0.000000	-0.000000	0.
MAX.	.643261	.643599	.950741	.956209	.972441	.968897	.979224	.979224	.70809E+00

# SPRINGLINE MOMENT

```

*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
SRSS .031856 .034080 .004212 .055207 .021013 .024497 .014685
MIN. .020065 .020088 .319134 .445420 .413469 .593618 .723640
MAX. 1.017621 1.020862 .214843 .135391 .636341 .593585 .687210
INPUT VARIABLE *****
.27950E-04
-.10404E-02
.85204E-03

```

# SPRINGLINE SSI STR-R

```

*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
SRSS .016914 .016296 .012794 .013628 .015561 .014905 .014891
MIN. .726012 .730267 .989881 .995066 1.033752 1.056055 1.078223
MAX. 0.000000 0.000000 0.024739 9.626173 0.000000 2.136488 .004295
INPUT VARIABLE *****
.14643E-01
-.60955E+00
.10745E-01

```

# INVERT THRUST

```

*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
SRSS .011945 .003120 .001632 .000608 .001066 .001814 .002556
MIN. 0.000000 -.029658 -.002187 -.000001 -.004572 -.000000 -.000748
MAX. 1.448402 1.507249 .891159 .945109 .957190 1.016094 .985541
INPUT VARIABLE *****
.80627E-02
.31445E+00

```

# INVERT MOMENT

```

*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
SRSS .025445 .030446 .017723 .001391 .015829 .020162 .016019
MIN. -.000022 -.000147 0.000000 -.000344 -.000181 -.000126 -.000197
MAX. .356759 .340706 .744186 .935175 1.050944 1.043383 .996304
INPUT VARIABLE *****
.66194E-04
-.38284E-10
.24304E-02

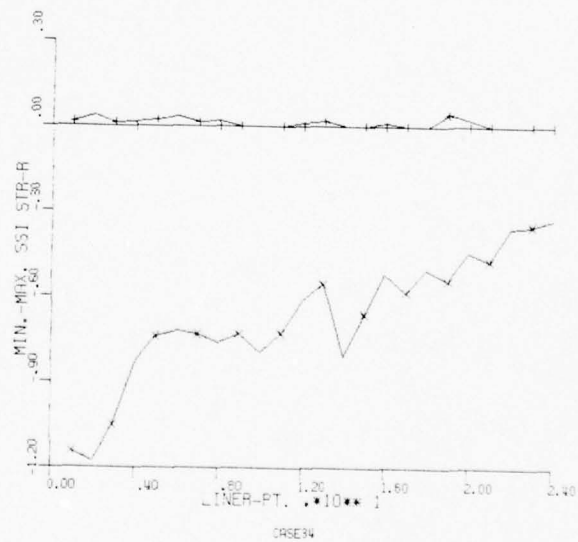
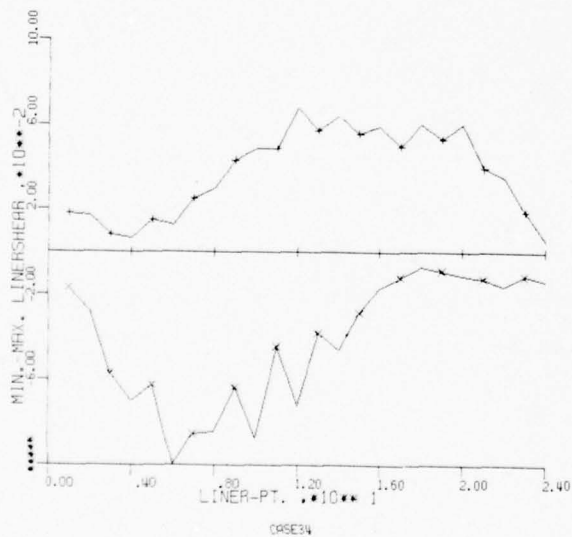
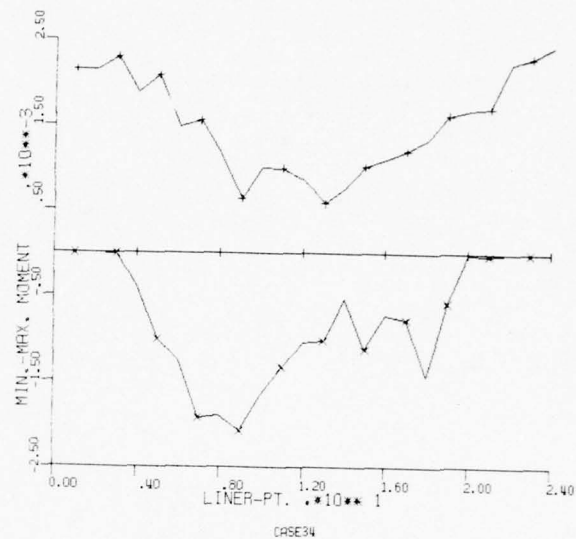
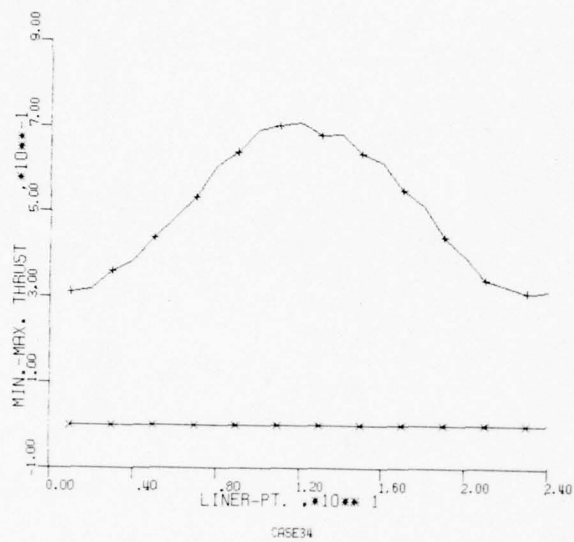
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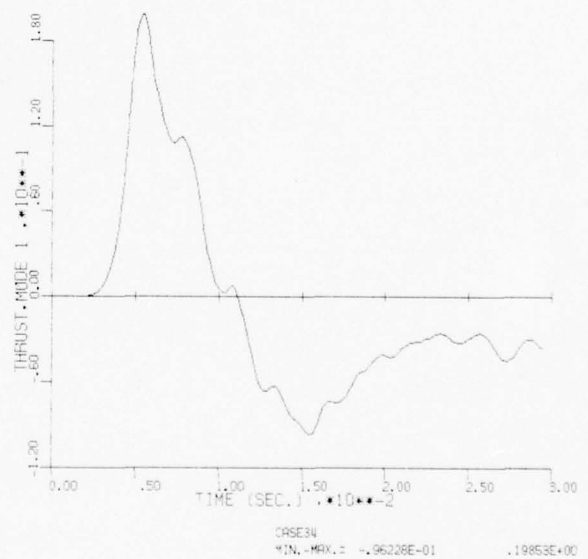
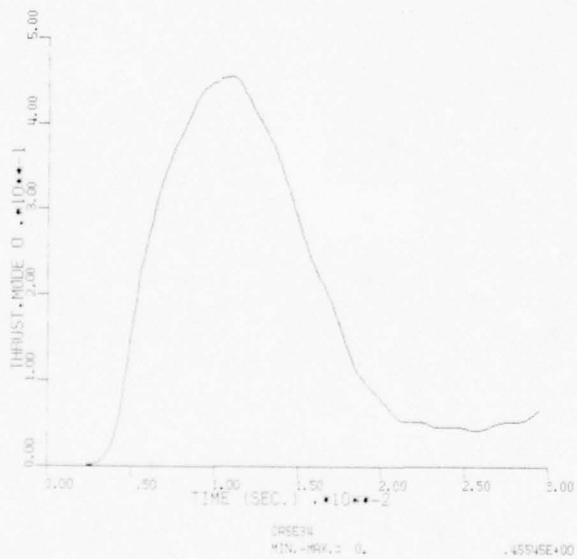
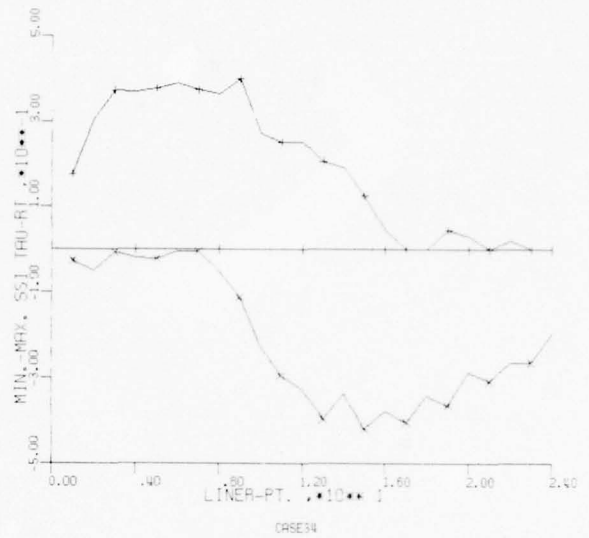
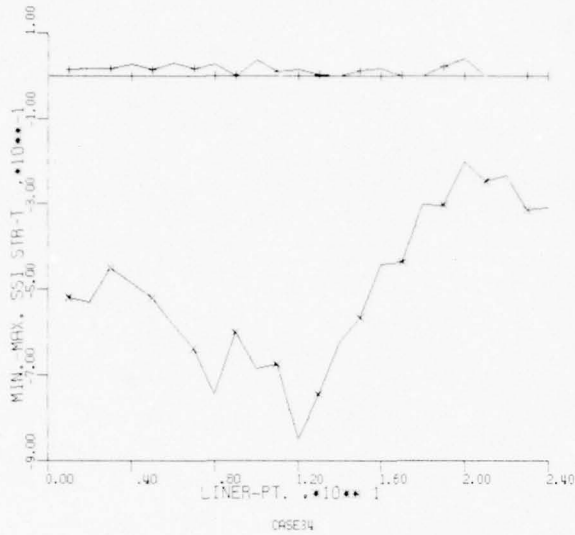
# INVERT SSI STR-R

```

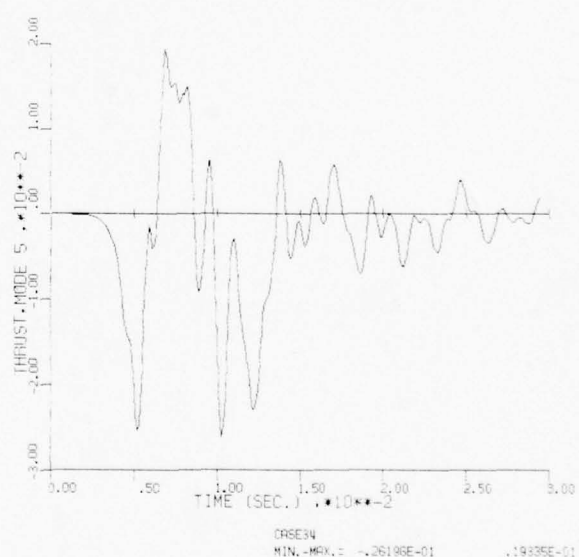
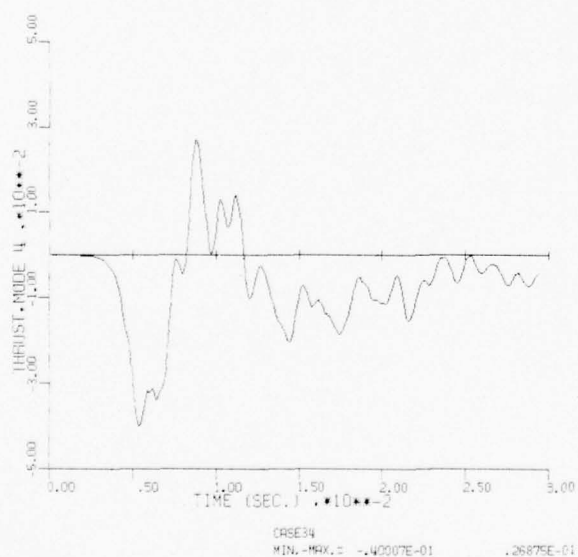
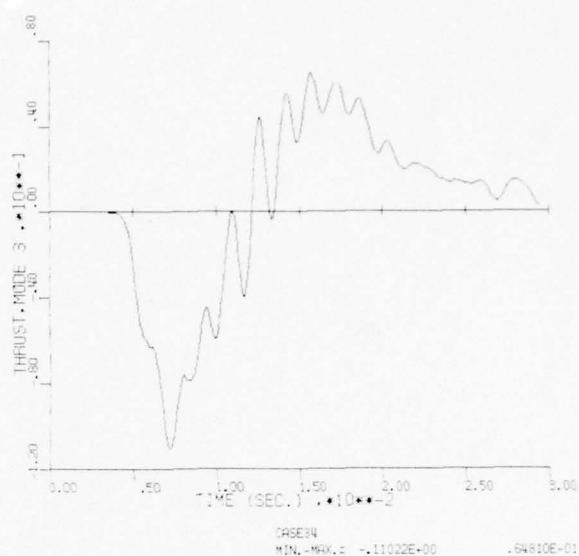
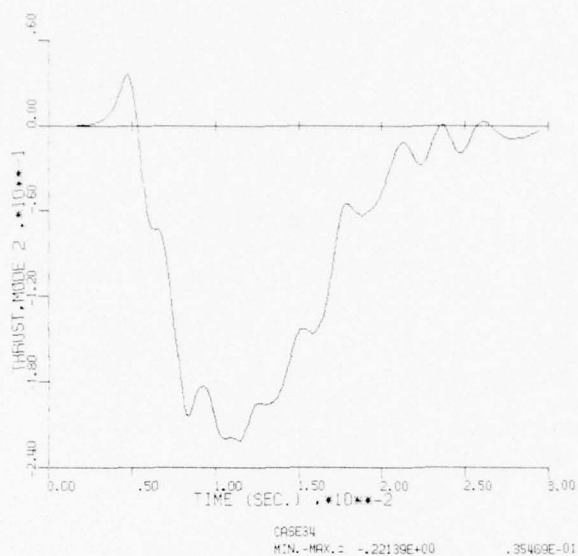
*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
SRSS .023612 .010743 .005962 .000240 .002400 .005041 .005060
MIN. 1.348234 1.518019 1.099417 1.170192 1.126248 1.081400 1.022712
MAX. 0.000000 .161863 .026116 .079470 .051254 .024872 .032051
INPUT VARIABLE *****
.10725E-01
-.32823E+00
0.

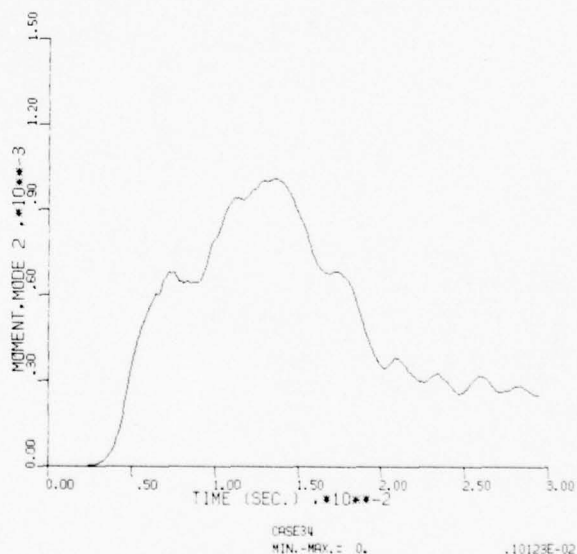
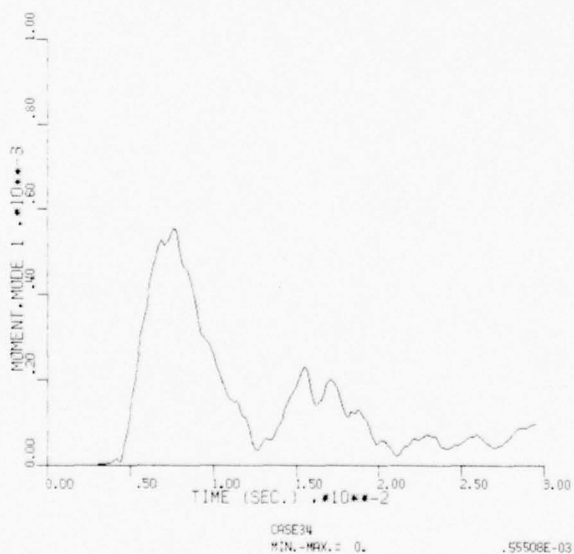
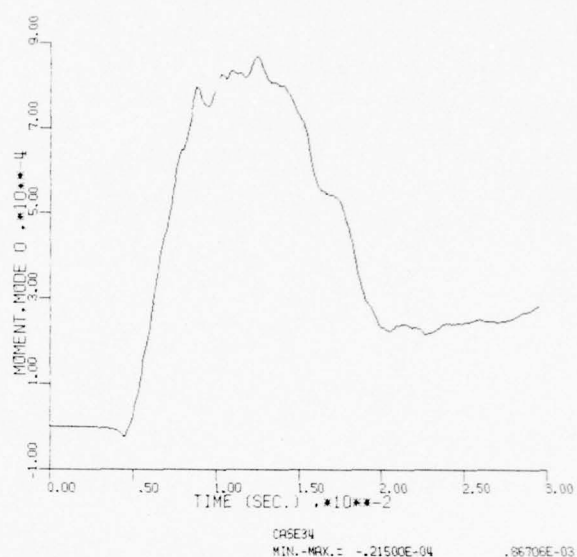
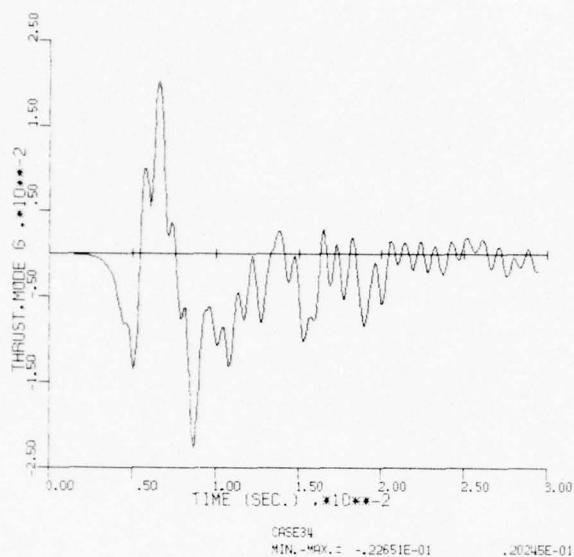
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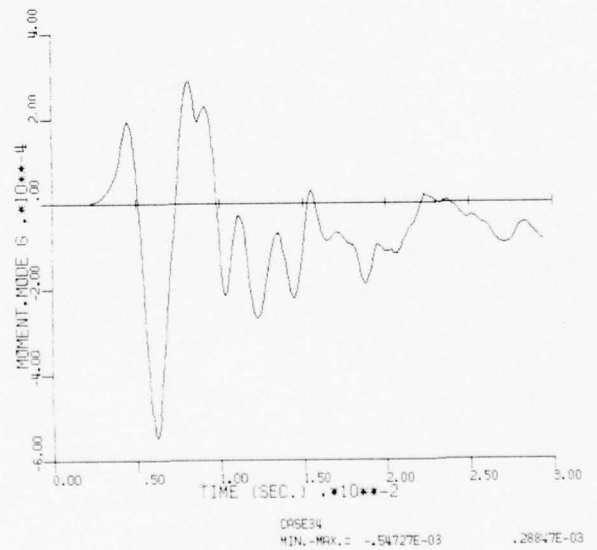
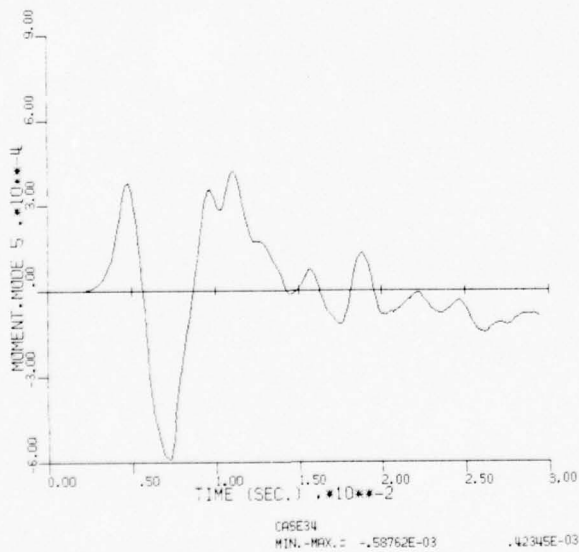
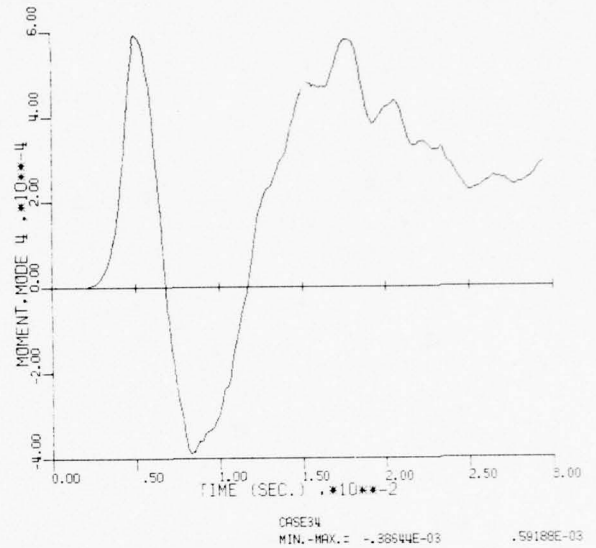
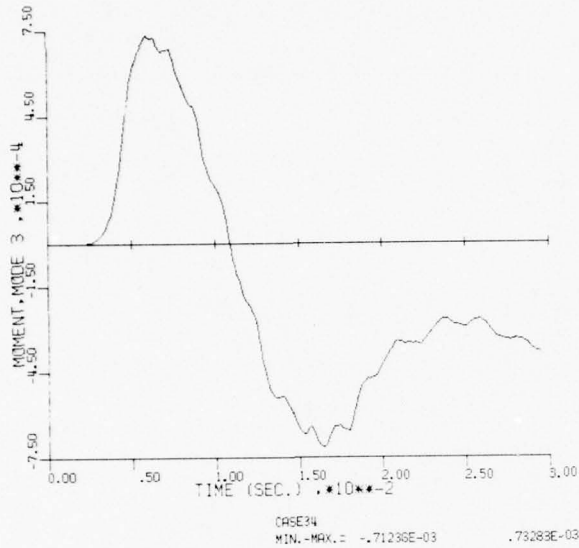


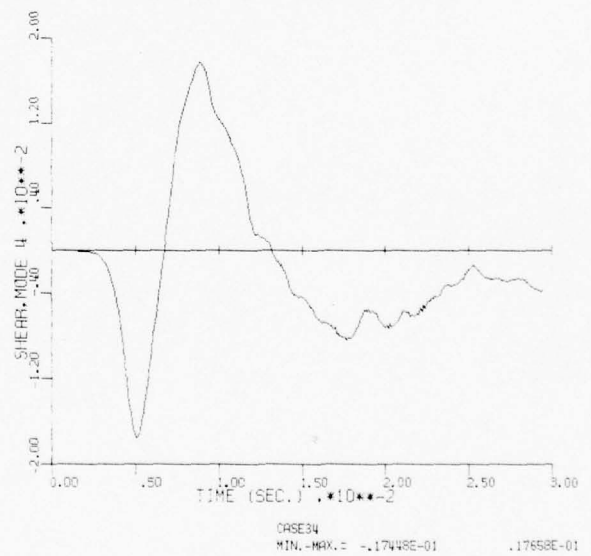
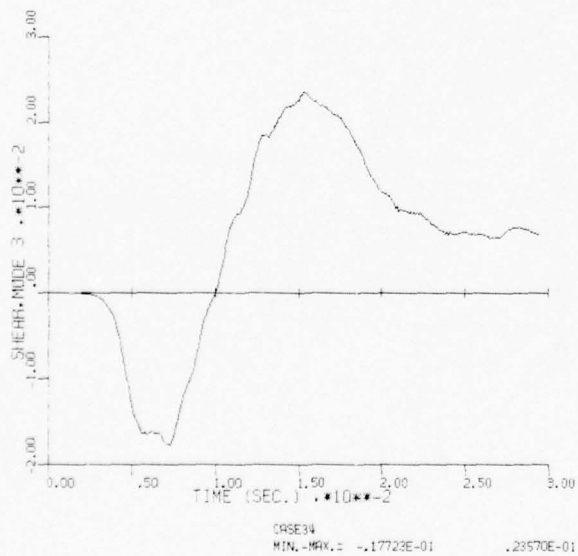
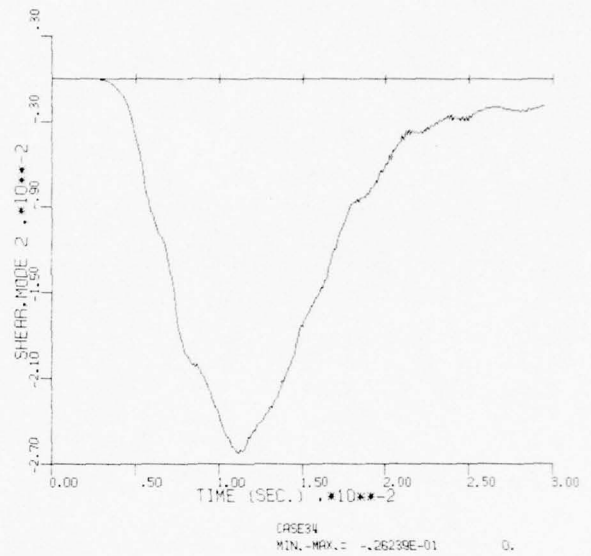
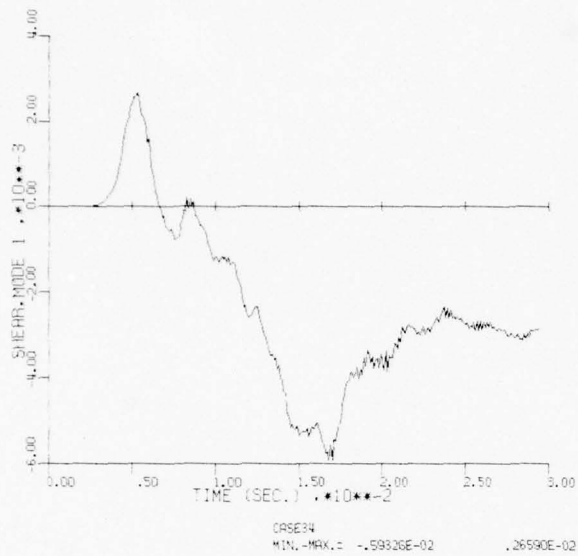


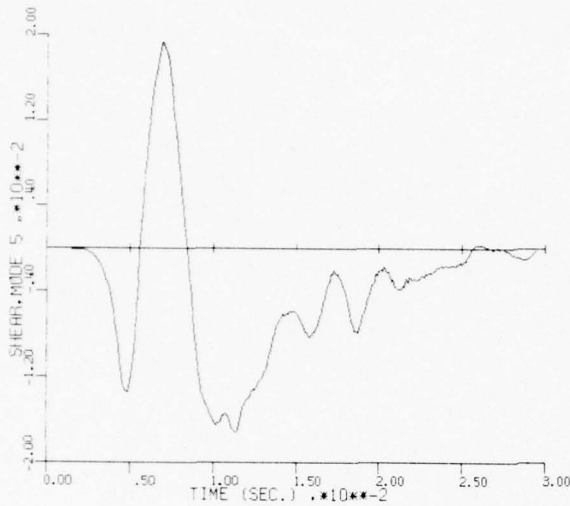




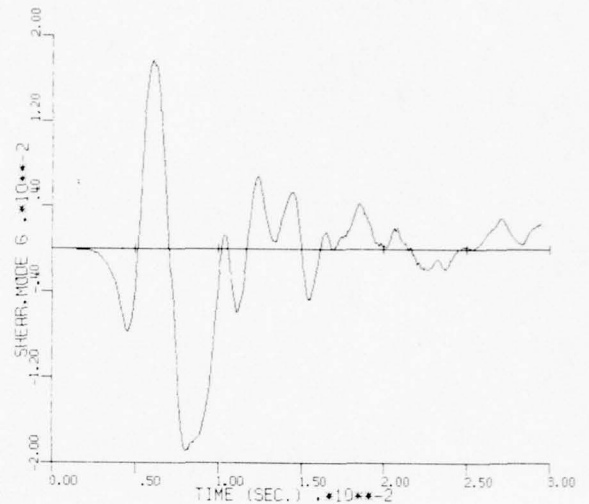




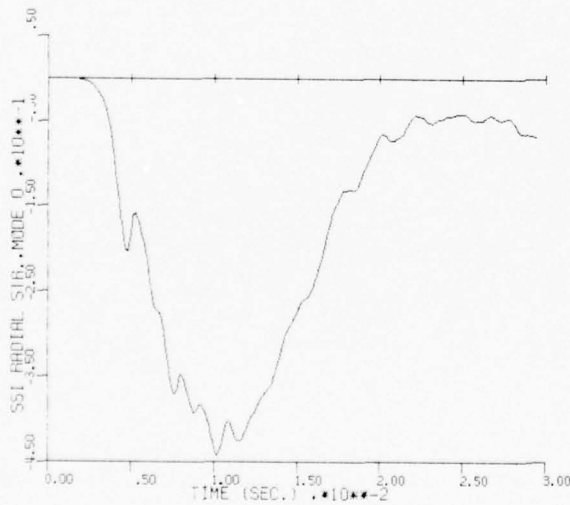




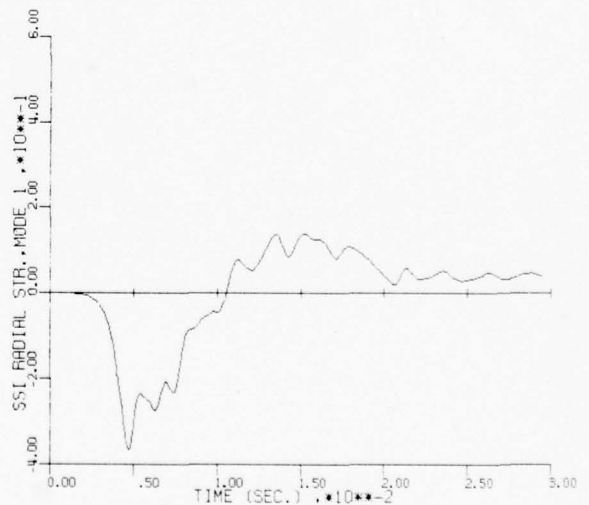
CASE34  
MIN.-MAX. = -.17175E-01 .19232E-01



CASE34  
MIN.-MAX. = -.18802E-01 .17658E-01

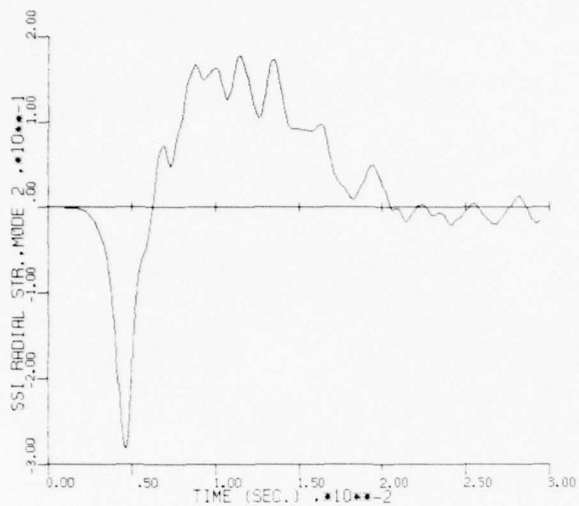


CASE34  
MIN.-MAX. = -.44254E+00 0.

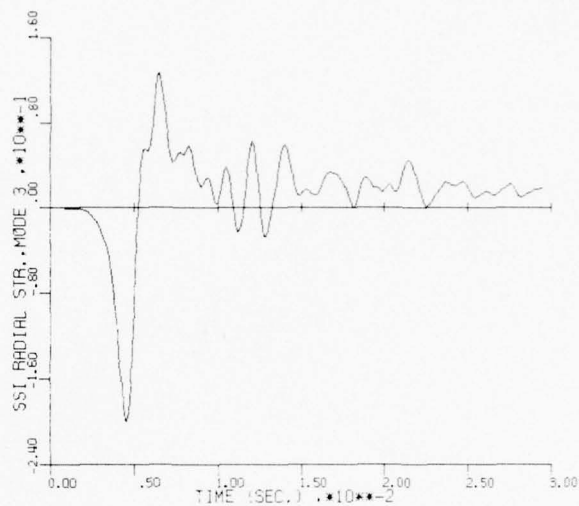


CASE34  
MIN.-MAX. = -.36438E+00 .13937E+00

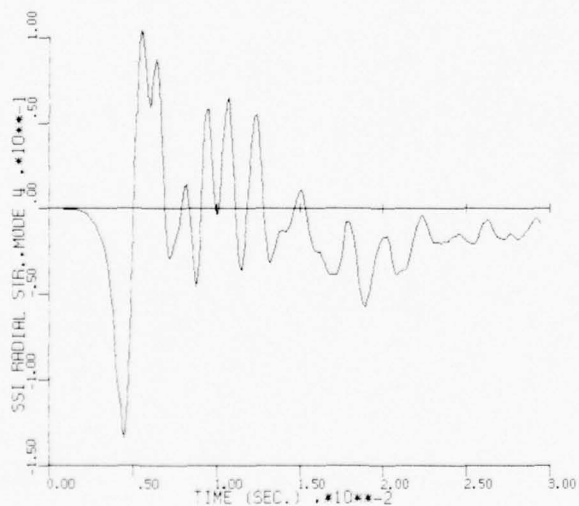




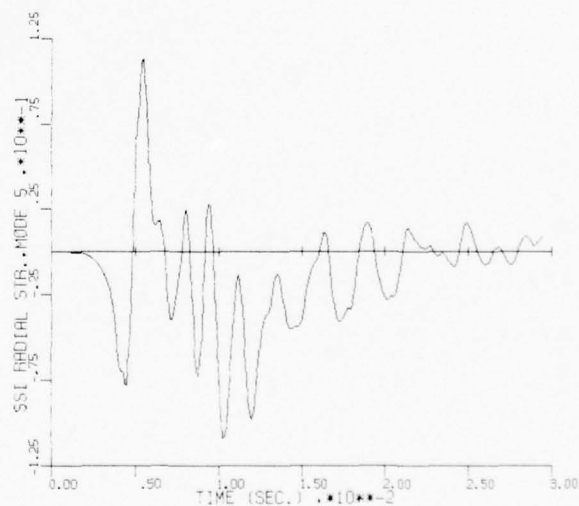
CASE34  
MIN.-MAX. = -.28073E+00 .17762E+00



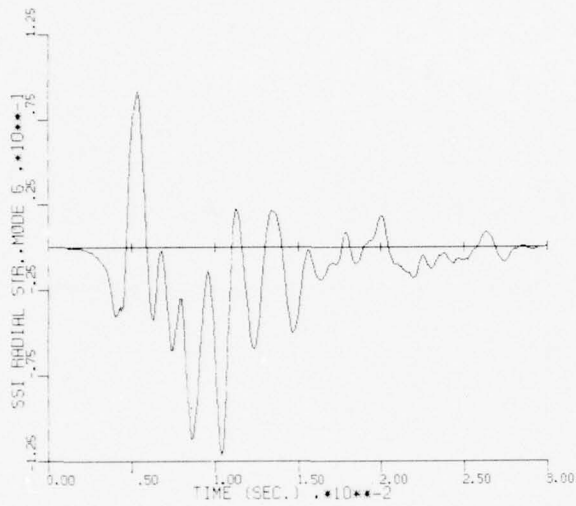
CASE34  
MIN.-MAX. = -.20004E+00 .12639E+00



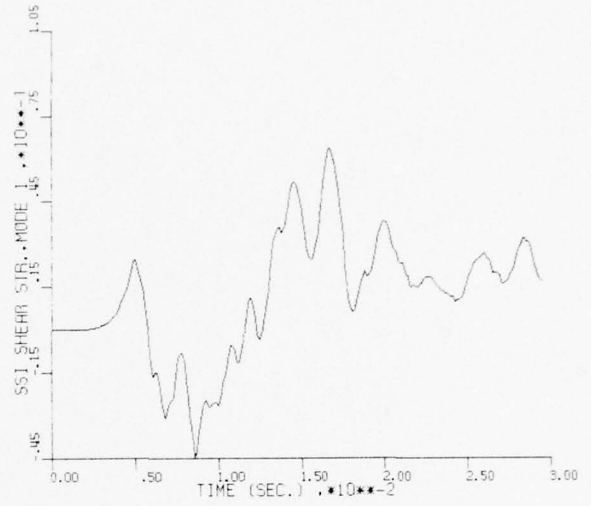
CASE34  
MIN.-MAX. = -.13354E+00 .10435E+00



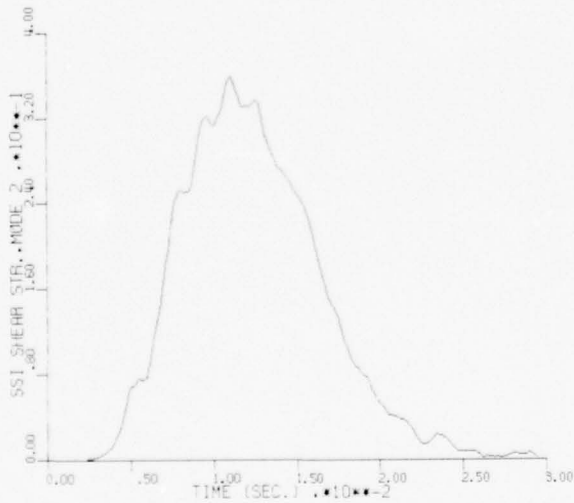
CASE34  
MIN.-MAX. = -.10834E+00 .11311E+00



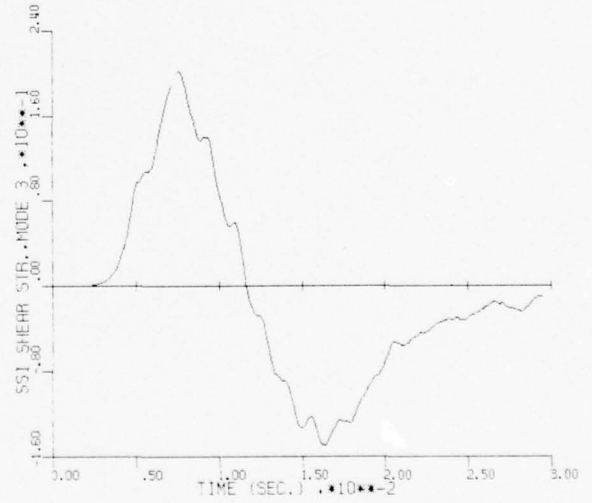
CASE34  
MIN.-MAX. = -.12137E+00 .91935E-01



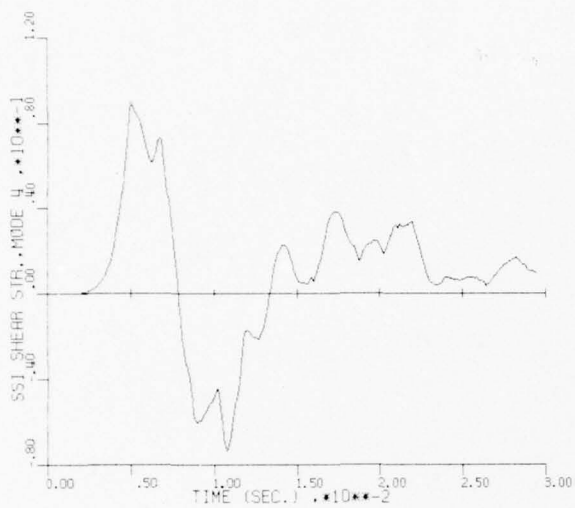
CASE34  
MIN.-MAX. = -.04467E-01 .63612E-01



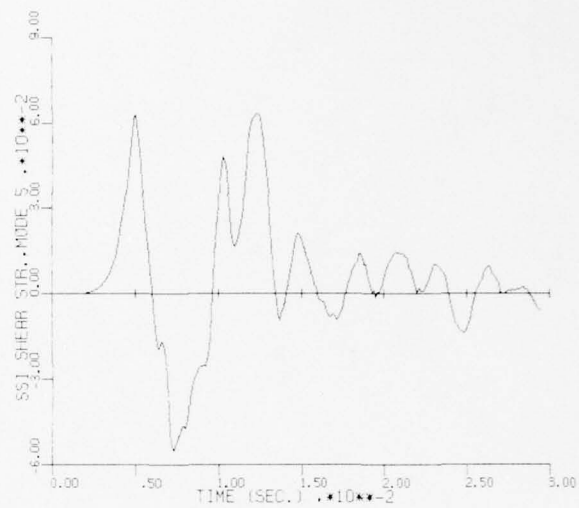
CASE34  
MIN.-MAX. = 0. .35957E+00



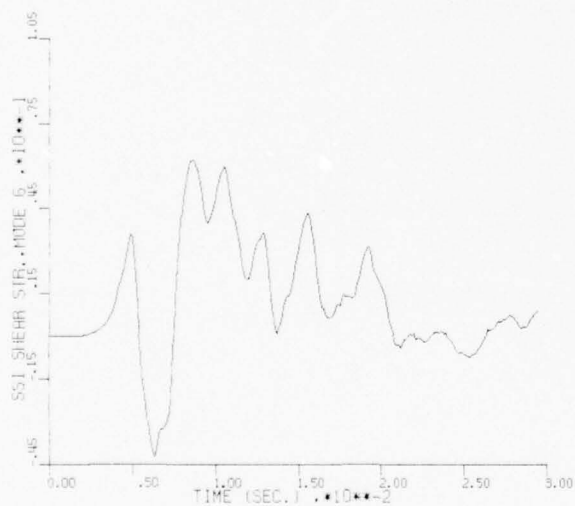
CASE34  
MIN.-MAX. = -.14918E+00 .20115E+00



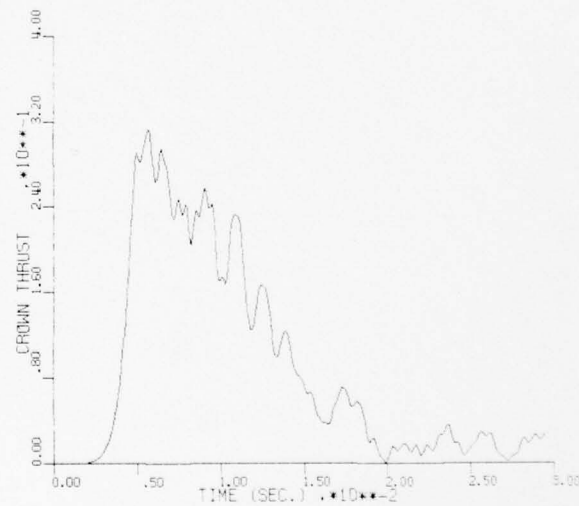
CASE34  
MIN.-MAX.: -.73284E-01 .88830E-01



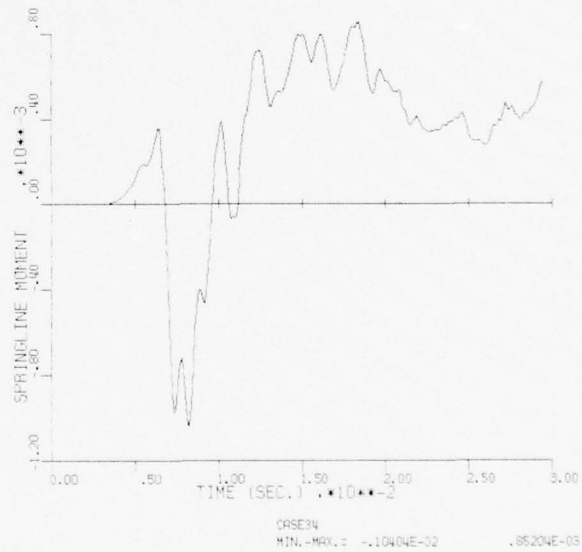
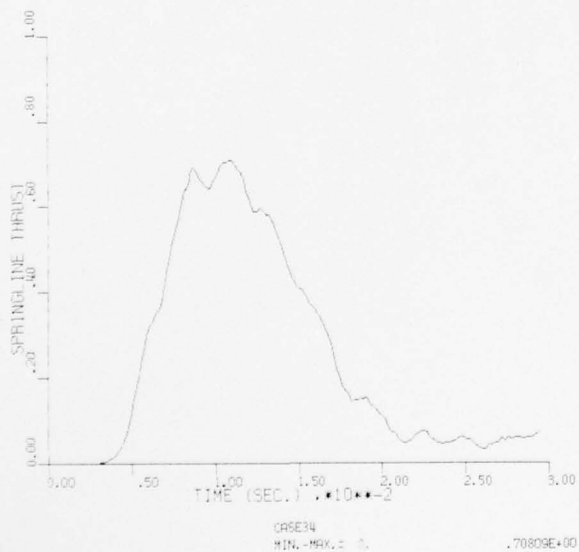
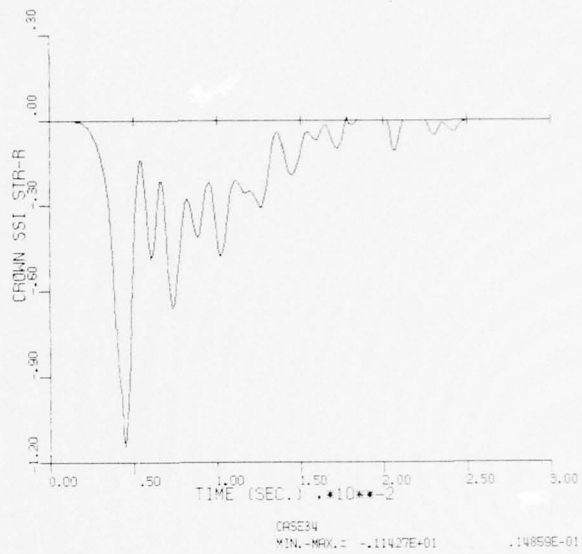
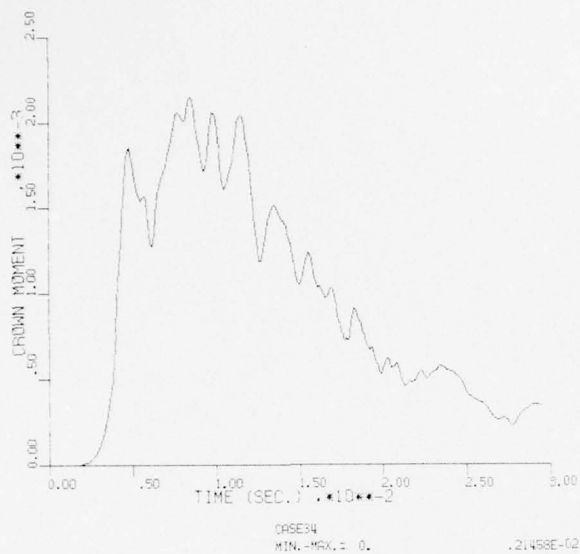
CASE34  
MIN.-MAX.: -.55078E-01 .63315E-01

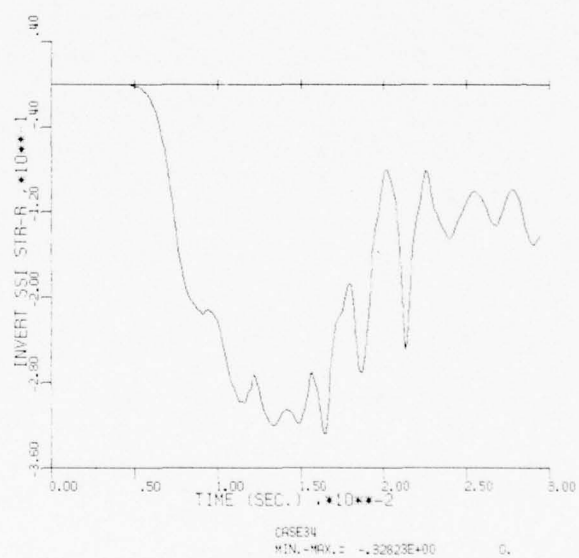
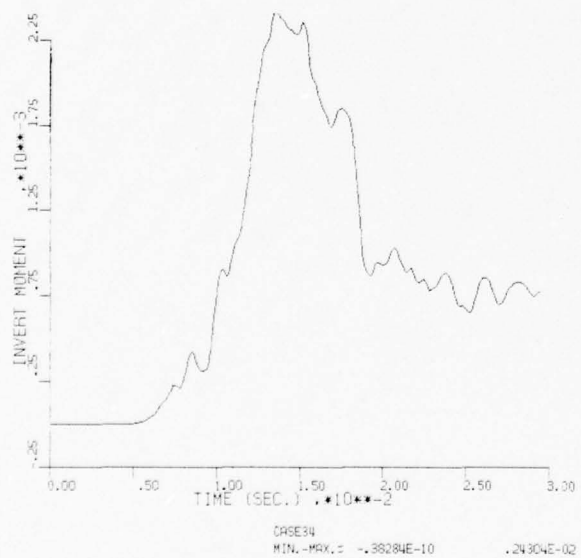
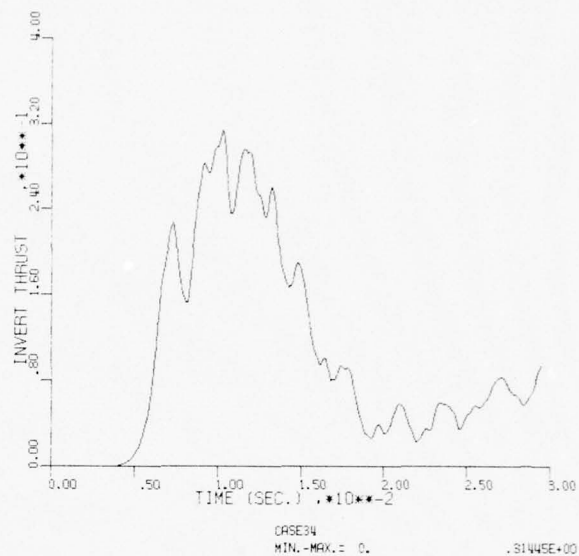
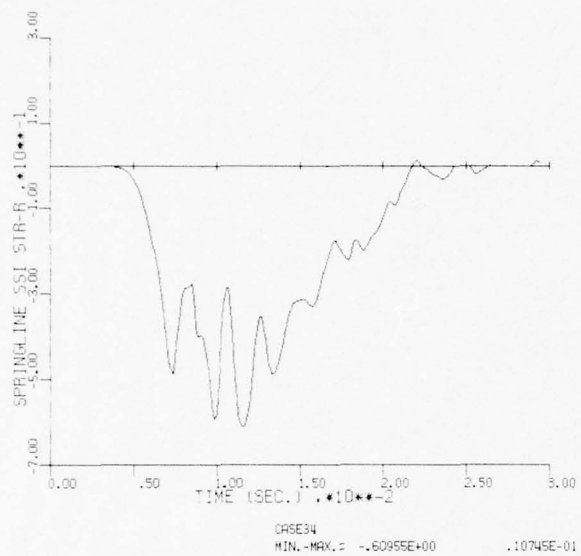


CASE34  
MIN.-MAX.: -.42319E-01 .62225E-01



CASE34  
MIN.-MAX.: 0. .31214E+00







CASE35

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MIN. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	-.075199	-.0421774	-.049735	-1.477867	-.502298	-.040131
	2	-.072147	-.0404942	-.114383	-1.433790	-.491788	-.071368
	3	-.069471	-.0373110	-.201621	-1.367537	-.502799	-.079581
	4	-.078437	-.0316109	-.257689	-1.231798	-.469122	-.054071
	5	-.061594	-.0241446	-.304315	-1.096422	-.506356	-.061013
	6	-.069951	-.0160261	-.334687	-.979173	-.466157	-.037190
	7	-.078070	-.0287083	-.338460	-.858969	-.494865	-.045513
	8	-.094467	-.0438536	-.348098	-.727246	-.443671	-.050000
	9	-.086859	-.0591264	-.330247	-.613133	-.447124	-.065256
	10	-.073511	-.0715183	-.331423	-.513133	-.376009	-.105166
SPR	11	-.053276	-.0824912	-.267873	-.395783	-.368381	-.165856
	12	-.063050	-.0922522	-.204910	-.323767	-.263800	-.240600
	13	-.052625	-.1019410	-.083587	-.378520	-.257437	-.292941
	14	-.034206	-.1044967	-.092485	-.435900	-.183879	-.320009
	15	-.003009	-.0993702	-.112649	-.475846	-.217600	-.368148
	16	0.000000	-.0846764	-.144320	-.495570	-.193681	-.366820
	17	0.000000	-.0628744	-.169620	-.503063	-.196422	-.386261
	18	0.000000	-.0347171	-.197061	-.474347	-.171393	-.357135
	19	0.000000	-.0091229	-.202591	-.463283	-.160063	-.336304
	20	0.000000	-.0194507	-.198904	-.490979	-.151229	-.293267
INV	21	0.000000	-.0336798	-.173430	-.580895	-.206100	-.247582
	22	0.000000	-.0462389	-.135508	-.656772	-.235686	-.178963
	23	-.018371	-.0557195	-.086415	-.710795	-.265311	-.122973
	24	-.046255	-.0605488	-.028595	-.737317	-.278589	-.040109

MAX. VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.570415	.0690027	.020063	.412079	.090528	.073214
	2	.534871	.0647835	.047069	.332558	.089886	.164675
	3	.630791	.0580811	.059244	.266943	.095448	.271939
	4	.690932	.0483665	.075928	.219547	.065525	.343396
	5	.764956	.0388921	.115022	.185982	.107023	.411946
	6	.844131	.0263239	.146010	.167039	.074168	.381497
	7	.902810	.0123486	.166097	.120110	.118229	.428612
	8	.952992	.0141663	.163231	.085221	.077832	.374403
	9	.965871	.0257426	.158449	.008901	.058362	.408961
	10	.958925	.0356273	.136296	0.000000	.001977	.321139
SPR	11	.927209	.0440502	.119364	.003575	.009290	.314811
	12	.901923	.0493600	.162605	0.000000	.001432	.236811
	13	.881190	.0523108	.203329	0.000000	0.000000	.201968
	14	.846717	.0516119	.236549	0.000000	0.000000	.165333
	15	.776061	.0479225	.261351	0.000000	0.000000	.155898
	16	.692689	.0401188	.306637	.000000	.000000	.145064
	17	.583498	.0295483	.375413	0.000000	0.000000	.132699
	18	.473591	.0158560	.428661	0.000000	0.000000	.133718
	19	.352687	.0197758	.444497	0.000000	0.000000	.118048
	20	.277994	.0322880	.428261	0.000000	0.000000	.097659
INV	21	.300397	.0590271	.373937	0.000000	0.000000	.082451
	22	.321419	.0838230	.293032	0.000000	0.000000	.052419
	23	.333871	.1015530	.184305	0.000000	.011586	.033003
	24	.342041	.1109342	.065103	0.000000	.025507	.012065

MIN-MAX MODAL AMPLITUDES -- CASE35

LINER THRUST PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.17269E+00	-.42033E+00	-.13470E+00	-.37066E-01	-.15182E-01	-.64809E-02
MAX	.55605E+00	.31778E+00	.12441E+00	.86312E-01	.48660E-01	.21763E-01	.11257E-01

LINER MOMENT PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.27691E-02	-.40006E-03	-.51048E-01	-.29584E-01	-.84452E-02	-.26208E-02	-.95949E-03
MAX	.18562E-05	.70532E-03	.89756E-01	.26517E-01	.54151E-02	.16656E-02	.98684E-03

LINER SHEAR PEAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.11600E-01	-.34361E+00	-.15662E+00	-.47923E-01	-.14740E-01	-.98740E-02
MAX	0.	.12002E-01	.16335E+00	.14509E+00	.58090E-01	.28489E-01	.12773E-01

SSI RADIAL STR. PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.48734E+00	-.55252E+00	-.33596E+00	-.22710E+00	-.12455E+00	-.65160E-01	-.49432E-01
MAX	0.	.31464E+00	.10787E+00	.28128E+00	.17252E+00	.11334E+00	.63536E-01

SSI SHEAR STR. PLAK MODAL AMPLITUDES

	MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	0.	-.65968E-01	-.78949E-01	-.15828E+00	-.13318E+00	-.73300E-01	-.36633E-01
MAX	0.	.69691E-01	.31224E+00	.17355E+00	.78010E-01	.47896E-01	.22837E-01

CASE 35

CROWN THRUST

MODE	U	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.006399	.017366	.006444	.004689	.004059	.002656	.001664	.10542E-01	
MIN.	0.000000	.958509	2.482239	1.455856	.955564	.963507	.952653	.75199E-01	
MAX.	.974810	1.407581	1.236878	1.028296	.975102	.974179	.985029	.57041E+00	

CROWN MOMENT

MODE	U	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.015809	.015592	.009102	.003260	.000819	.000303	.000130	.19010E-02	
MIN.	.065654	.050402	1.221335	1.065907	1.024139	1.012230	1.001446	.42177E-01	
MAX.	.000027	.000768	1.260801	1.129339	1.017581	.987111	.992866	.69003E-01	

CROWN SST STR-R

MODE	U	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.029566	.019839	.011034	.011504	.009145	.006842	.004727	.28719E-01	
MIN.	.329759	.660688	.854272	.992845	1.049331	1.045372	1.024521	.14779E+01	
MAX.	0.000000	.420690	.451044	.700624	.879190	.919997	.992372	.41208E+00	

SPRINGLINE THRUST

MODE	U	MODES 0-1	MODES 0-2	MODES 0-3	VARIABLE	MODES 0-4	MODES 0-5	MODES 0-6	INPUT
SRSS	.005604	.004891	.000107	.000267	.000021	.000239	.000215	.23034E-01	
MIN.	0.000000	0.000000	.645405	.569302	.955943	.984360	.969501	.63050E-01	
MAX.	.616511	.636886	.954425	.964189	.992377	.999770	.998302	.90192E+00	

SPRINGLINE MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .001138 .004153 .001098 .002038 .000063 .000079 .000061  
MIN. .050017 .029550 .987253 .933603 .990643 .988816 .998520  
MAX. .000038 .000055 1.011599 .978548 1.003958 1.006100 .999468  
INPUT  
VARIABLE  
.25497E-02  
-.92252E-01  
.49360E-01

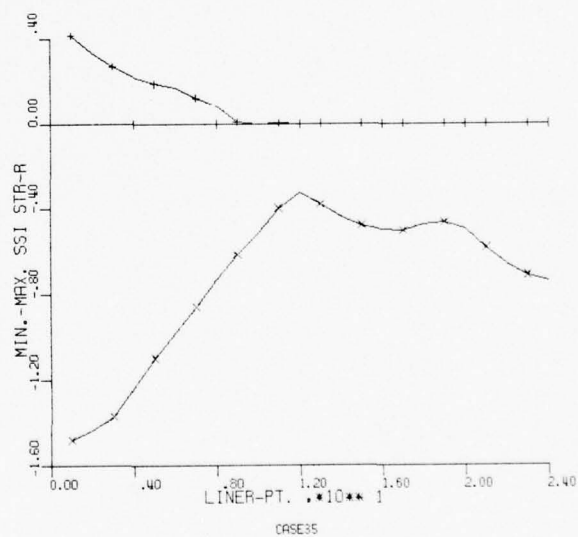
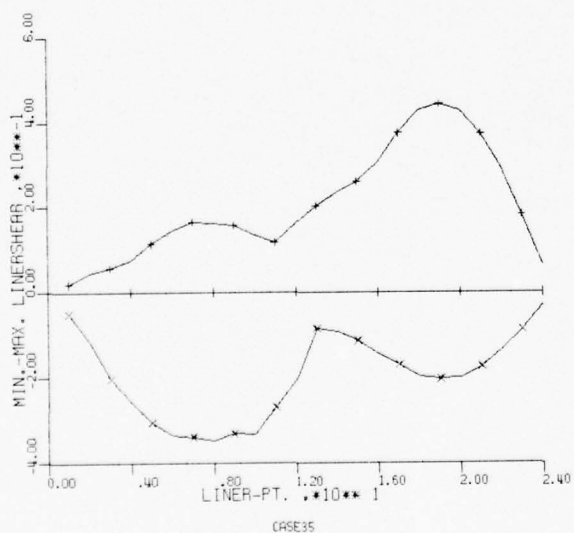
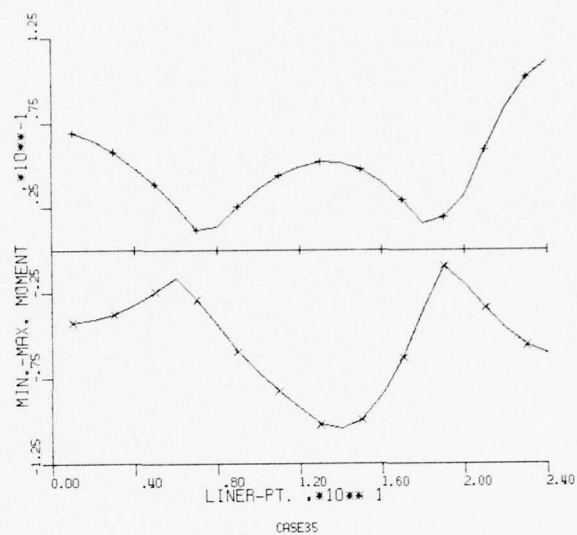
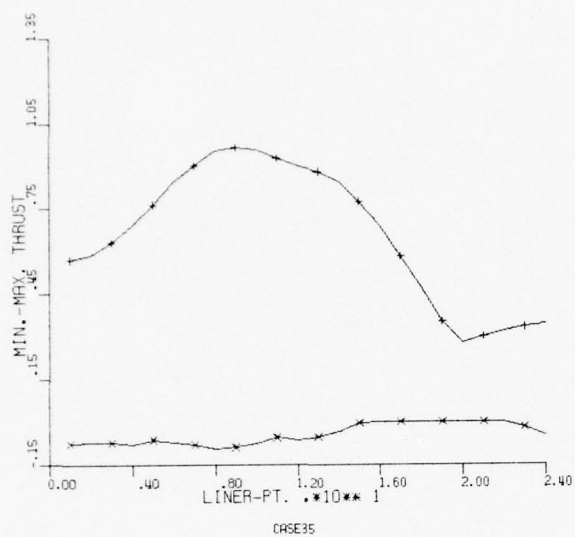
SPRINGLINE SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .011991 .017194 .013225 .012902 .004752 .002051 .009357  
MIN. 1.505216 1.580357 1.498368 1.495267 .995075 .911401 .949384  
MAX. 0.000000 0.000000 .042068 .075404 0.000000 0.000000 .000037  
INPUT  
VARIABLE  
.83131E-02  
-.32377E+00  
0.

INVERT THRUST  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .011403 .011302 .002531 .000307 .001105 .000672 .000584  
MIN. 0.000000 .232415 1.299509 1.521599 .671732 1.030978 1.070953  
MAX. 1.625668 1.195047 1.048305 1.054754 .970326 1.005655 .996416  
INPUT  
VARIABLE  
.83233E-02  
-.46255E-01  
.34204E+00

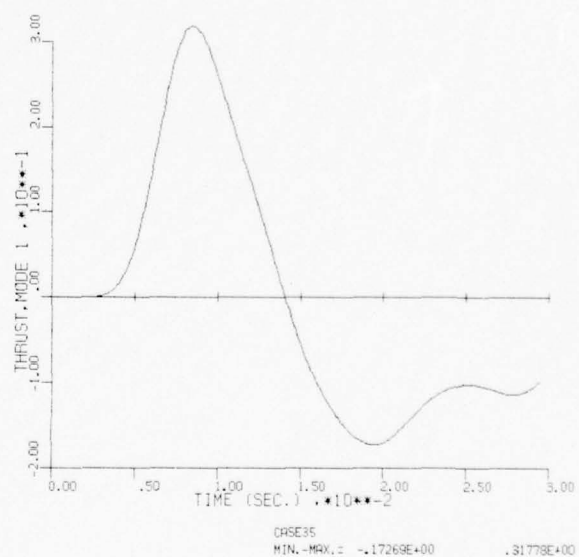
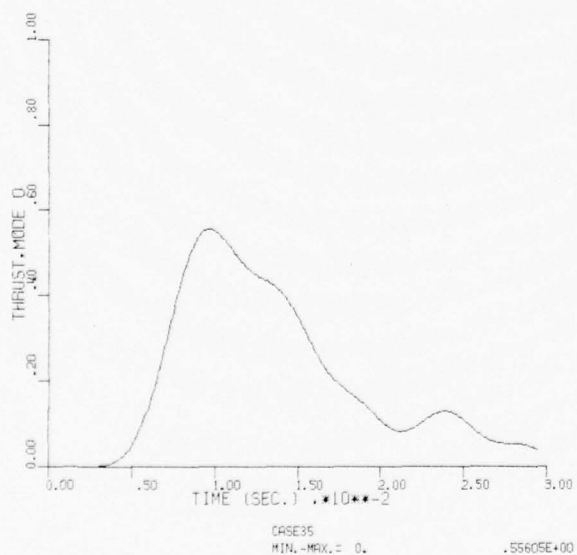
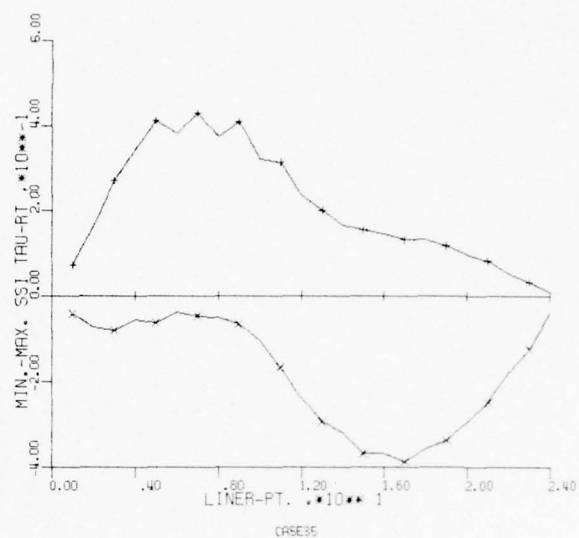
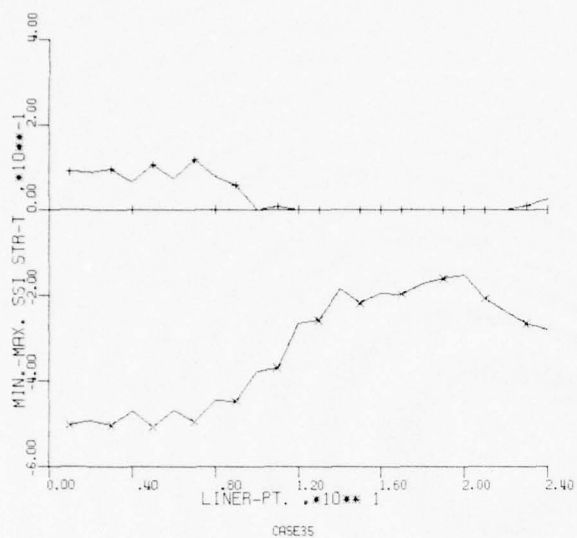
INVERT MOMENT  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .001895 .002105 .002803 .001615 .000231 .000159 .000029  
MIN. .045734 .050099 .642884 1.007984 .992781 1.006950 1.001724  
MAX. .000017 .000007 .782421 1.033442 1.009608 .995436 .997305  
INPUT  
VARIABLE  
.25139E-02  
-.60549E-01  
.11093E+00

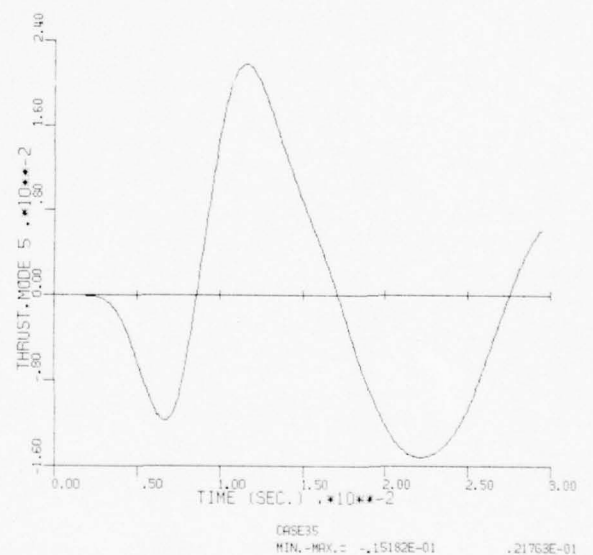
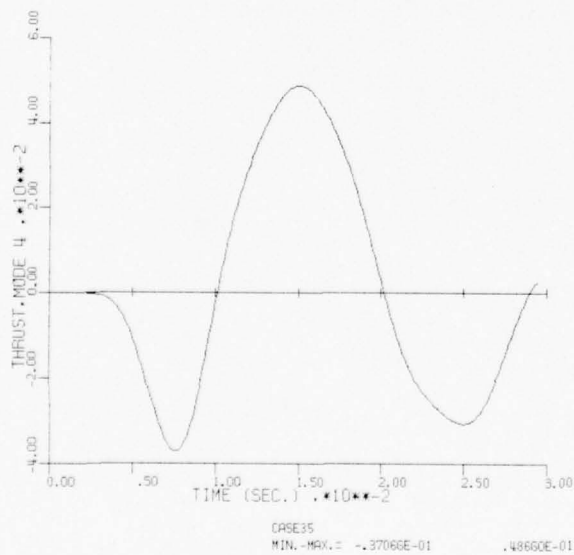
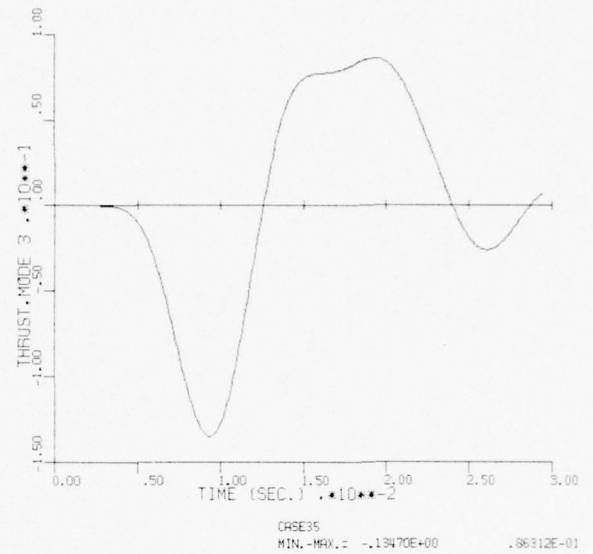
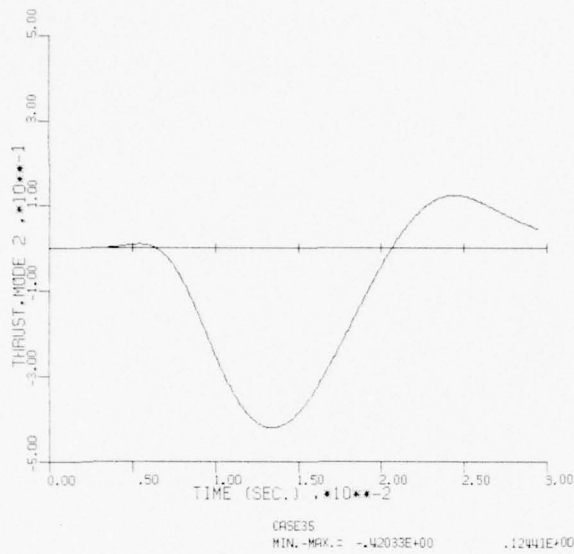
INVERT SSI STR-R  
\*\*\*\*\*  
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6  
SRSS .001773 .017503 .003264 .002504 .001311 .002413 .001007  
MIN. .660964 .710734 .752915 1.104063 .994473 1.017026 .976311  
MAX. 0.000000 .183777 0.000000 .076478 0.000000 .013774 .000148  
INPUT  
VARIABLE  
.17760E-01  
-.75732E+00  
0.

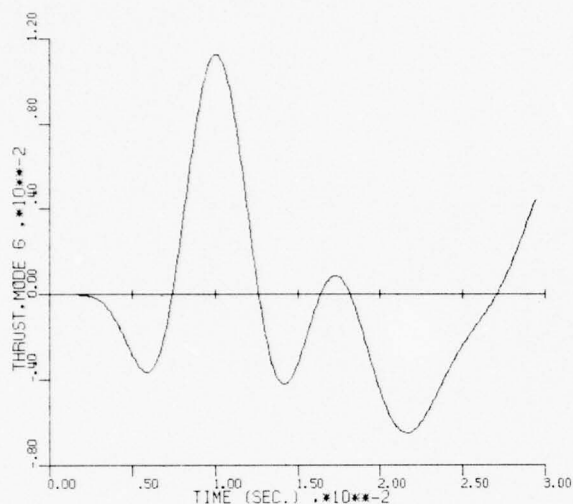




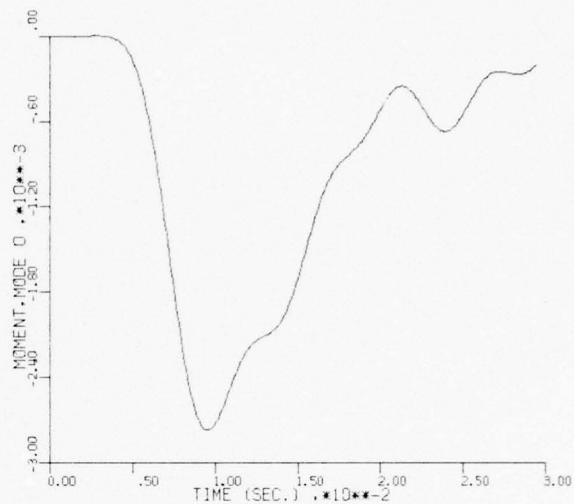




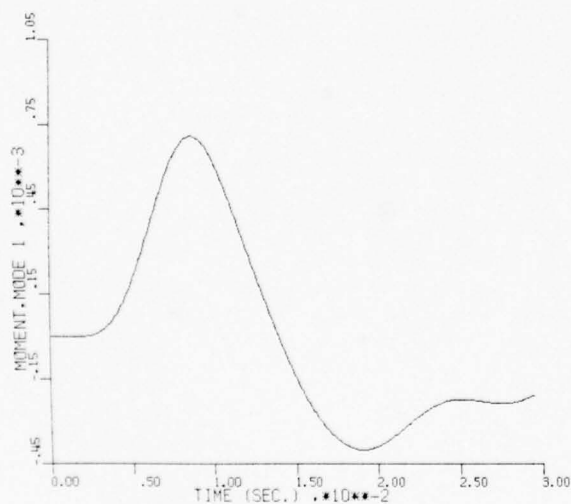




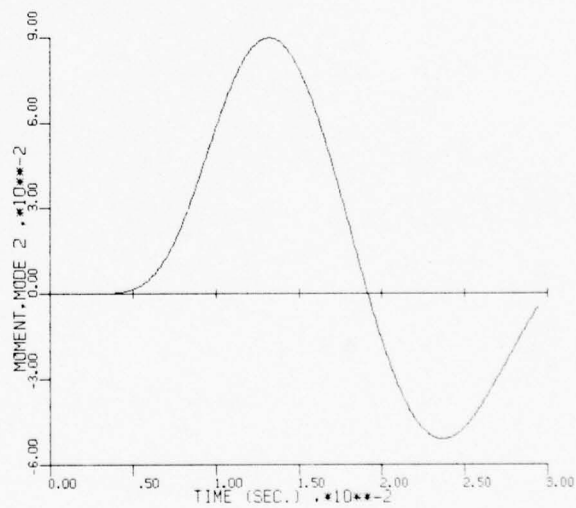
CASE35  
MIN.-MAX. = -.64809E-02 .11257E-01



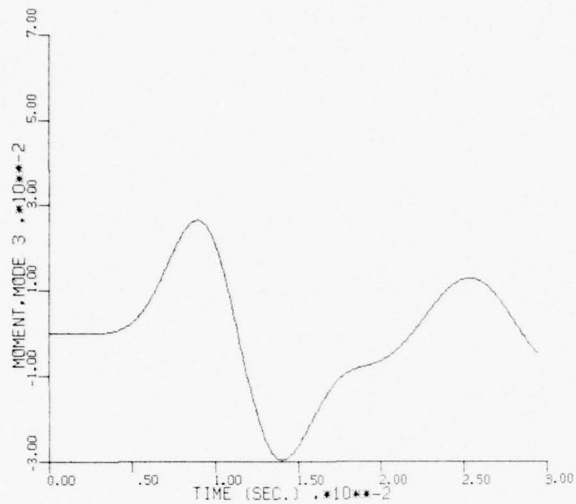
CASE35  
MIN.-MAX. = -.27691E-02 .18562E-05



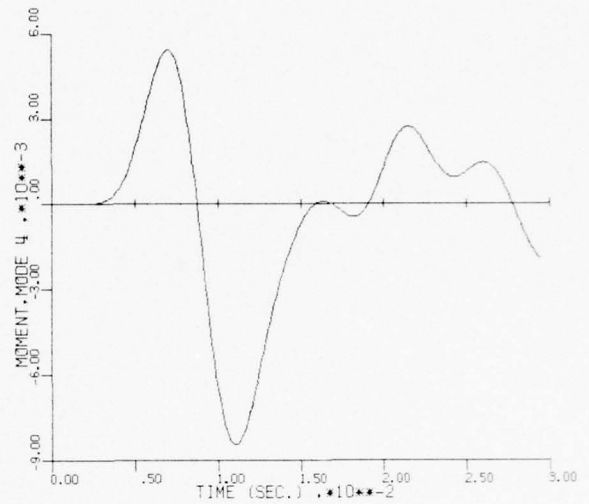
CASE35  
MIN.-MAX. = -.40006E-03 .70532E-03



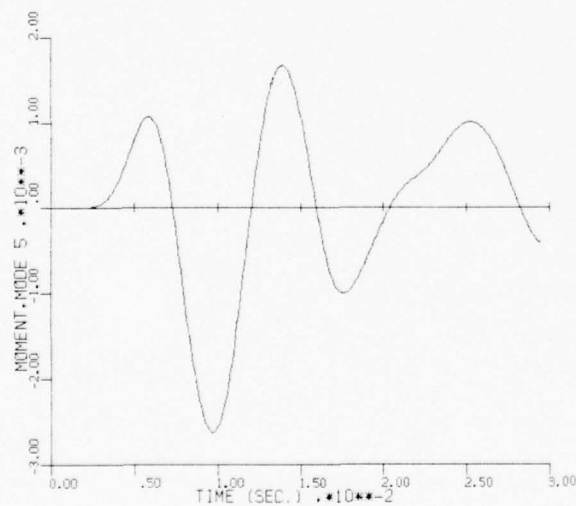
CASE35  
MIN.-MAX. = -.51048E-01 .89756E-01



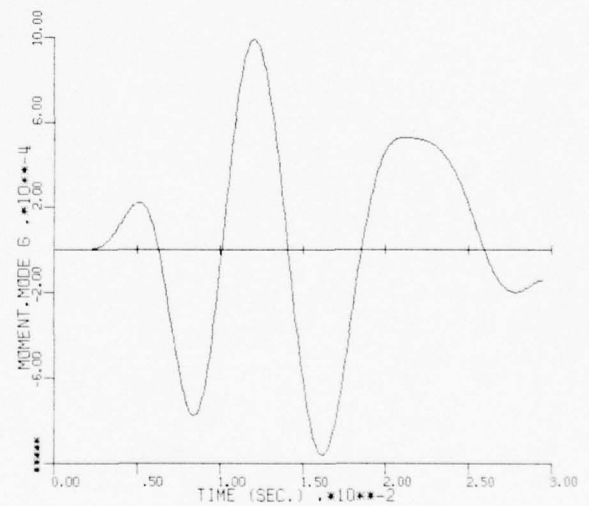
CASE35  
MIN. - MAX. = -.29584E-01 .26517E-01



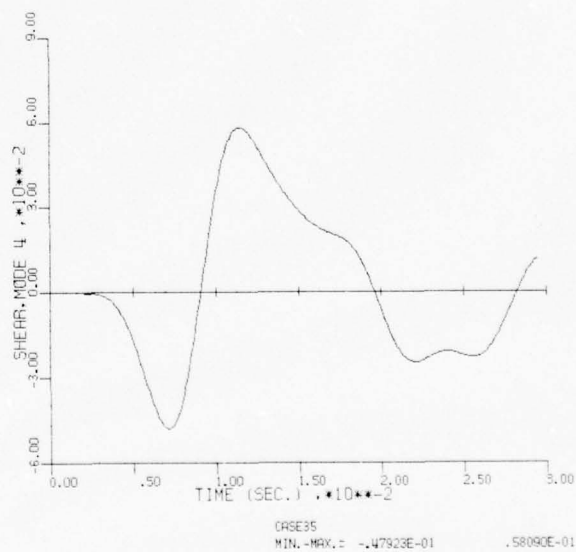
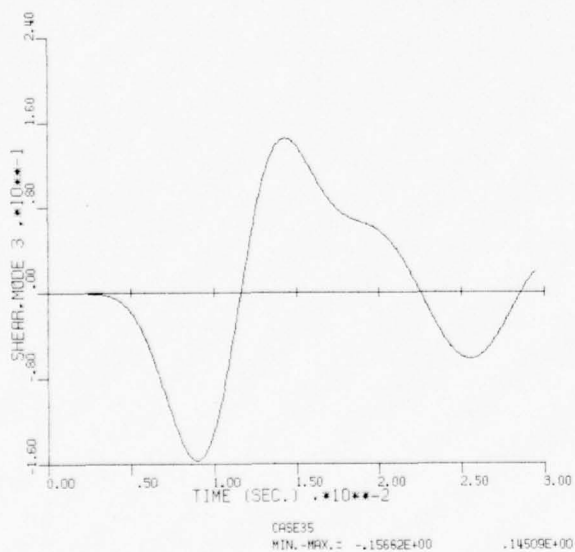
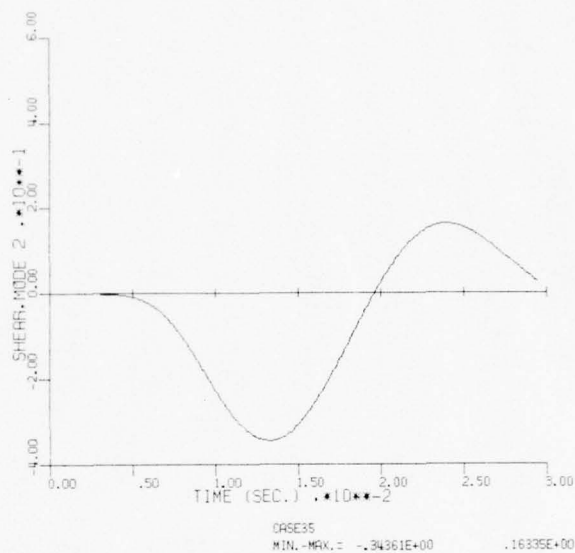
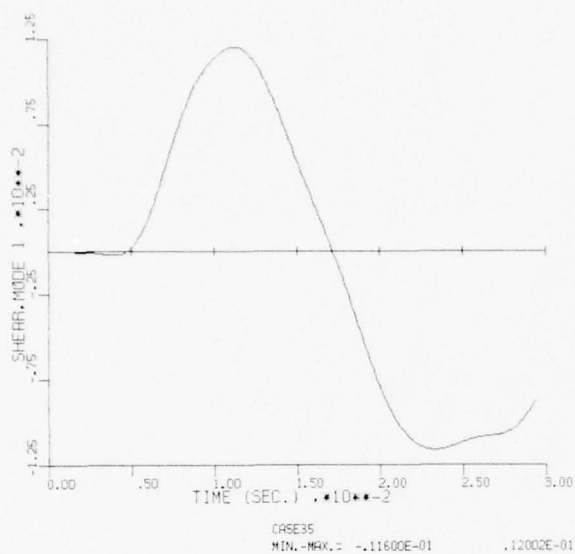
CASE35  
MIN. - MAX. = -.84452E-02 .54151E-02



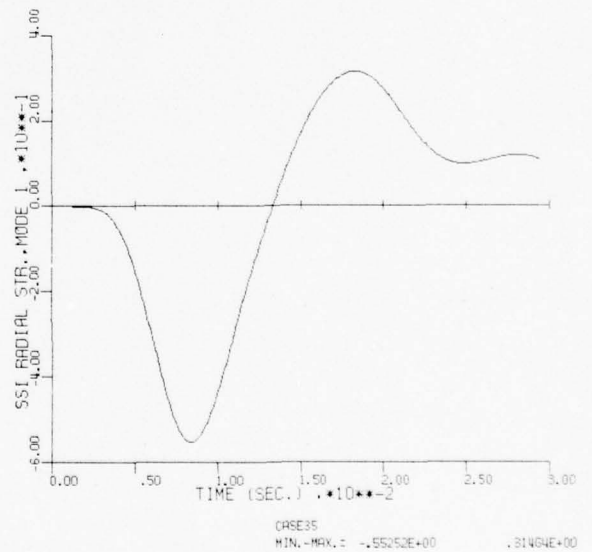
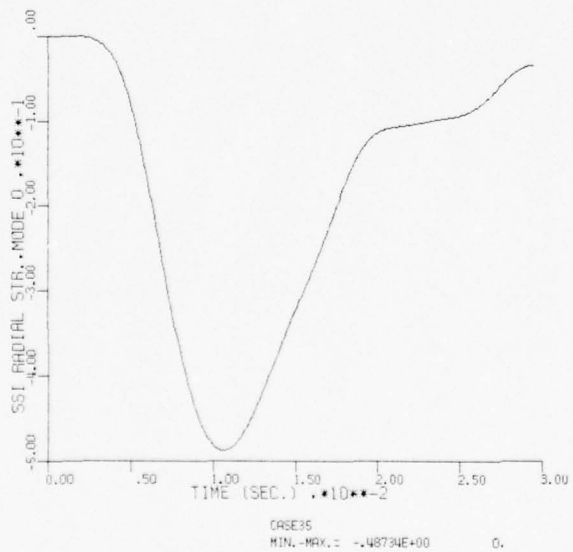
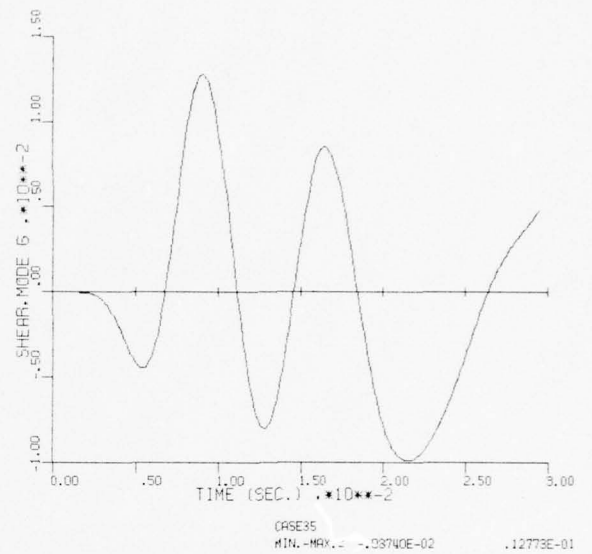
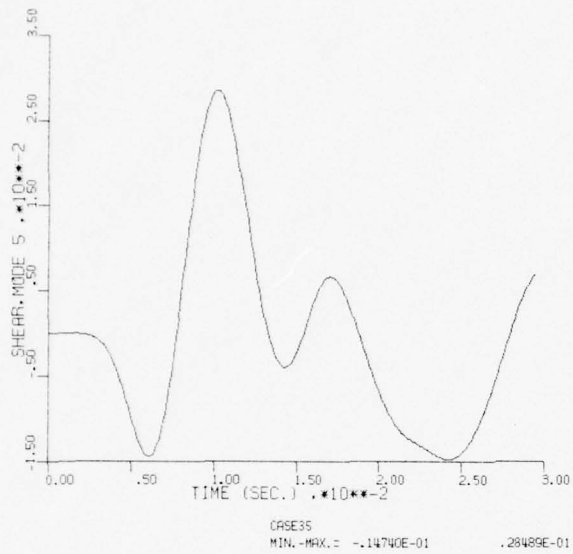
CASE35  
MIN. - MAX. = -.26208E-02 .16656E-02

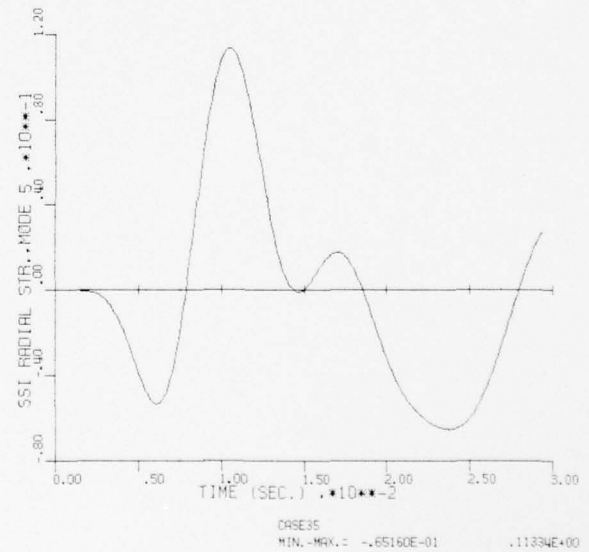
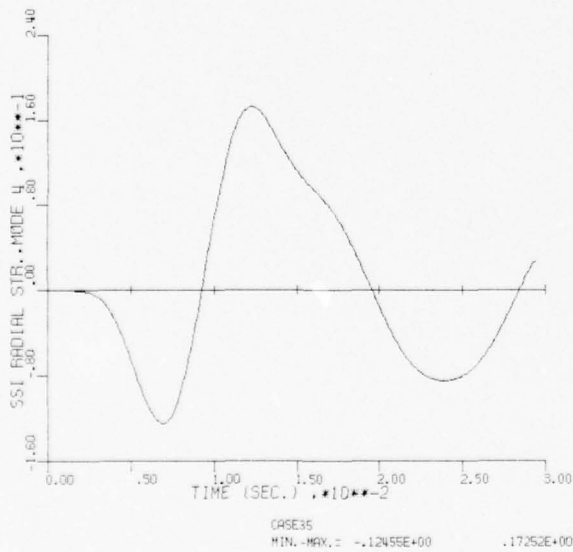
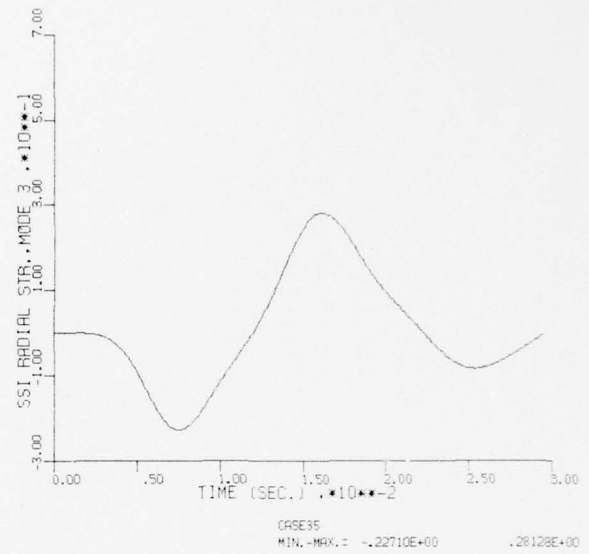
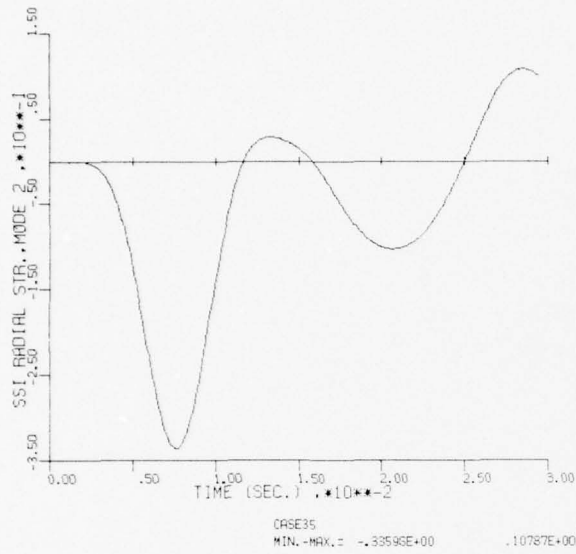


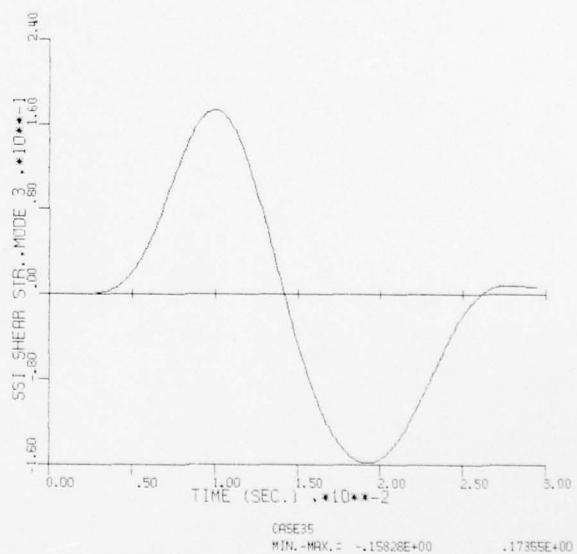
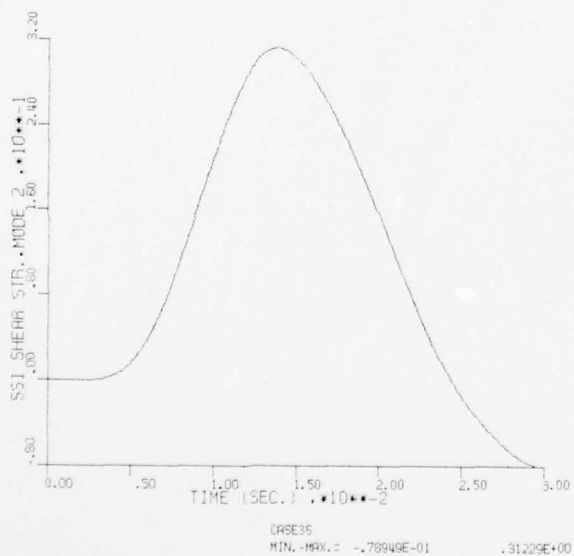
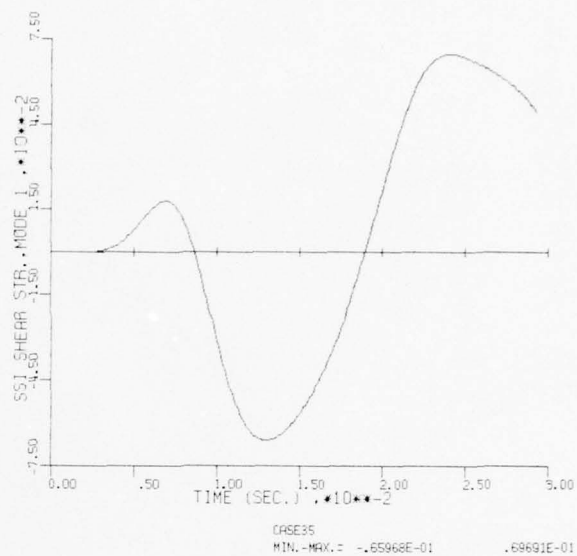
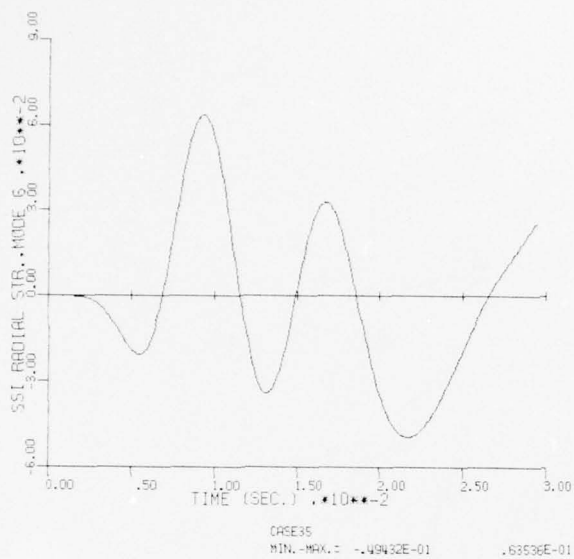
CASE35  
MIN. - MAX. = -.95949E-03 .98624E-03

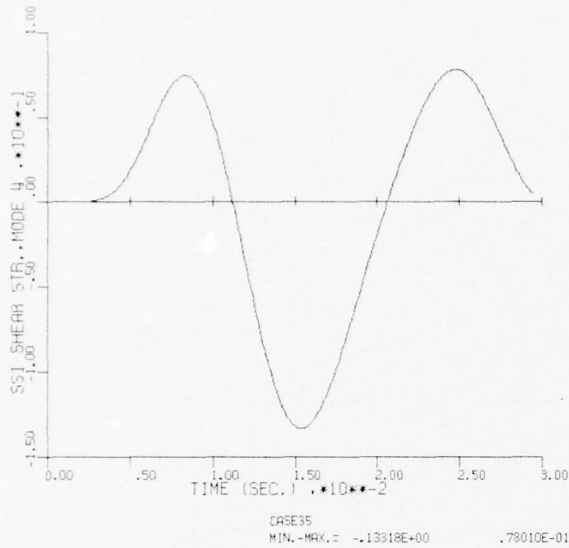




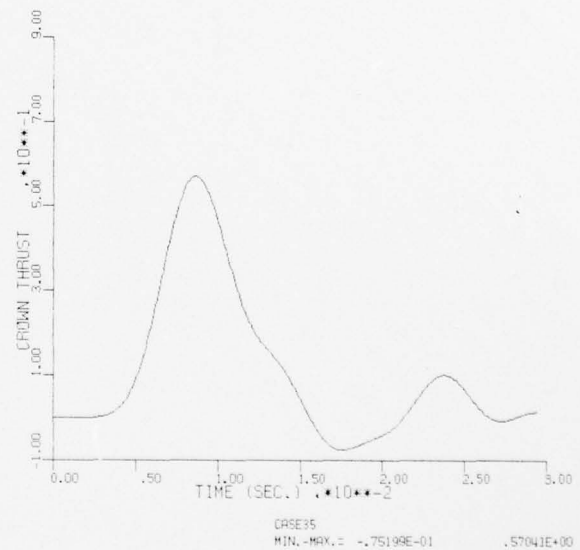
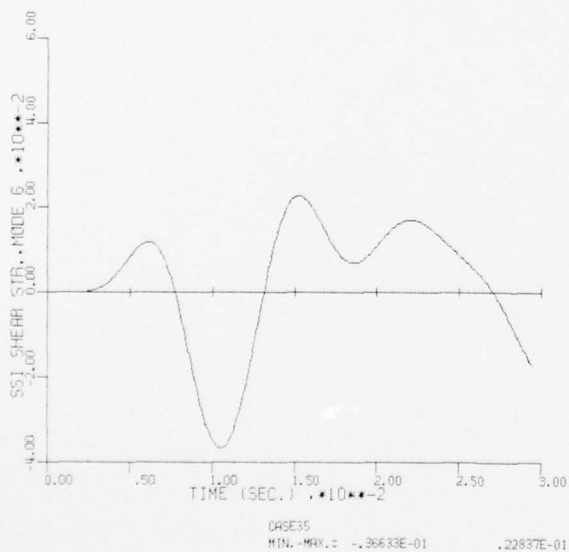


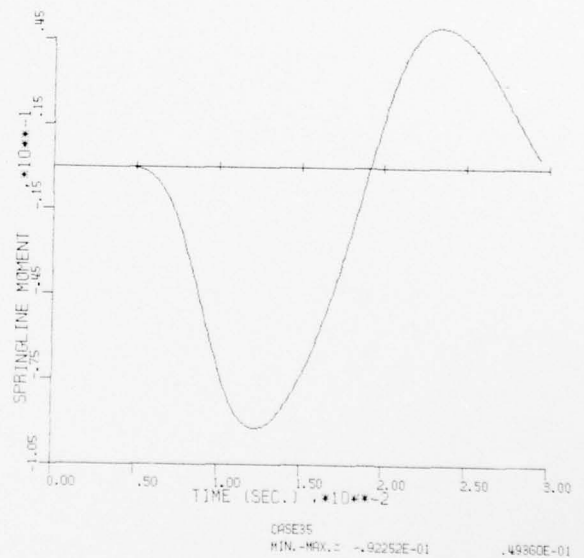
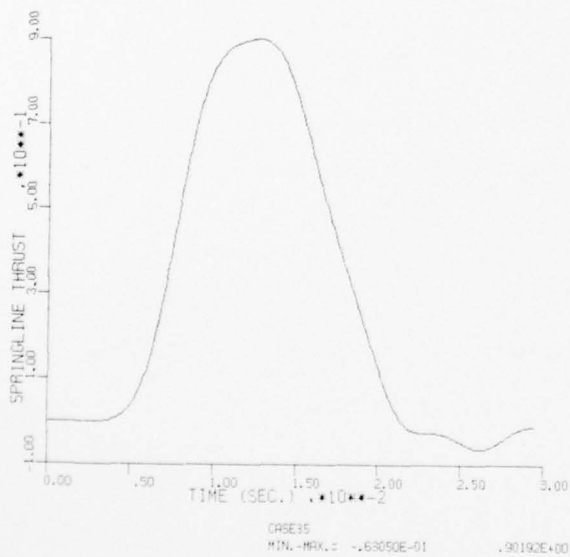
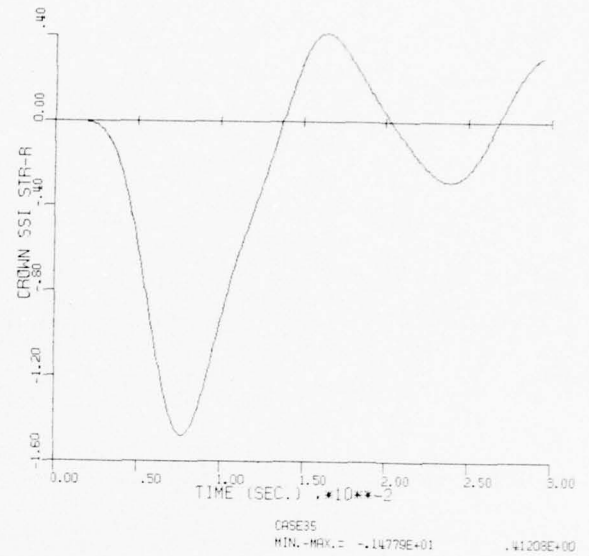
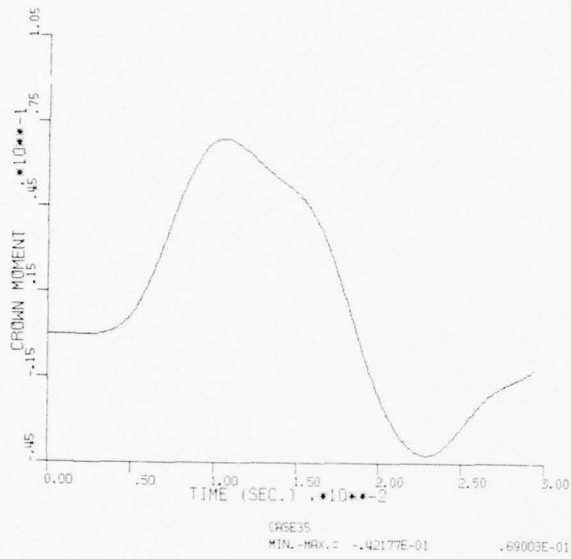




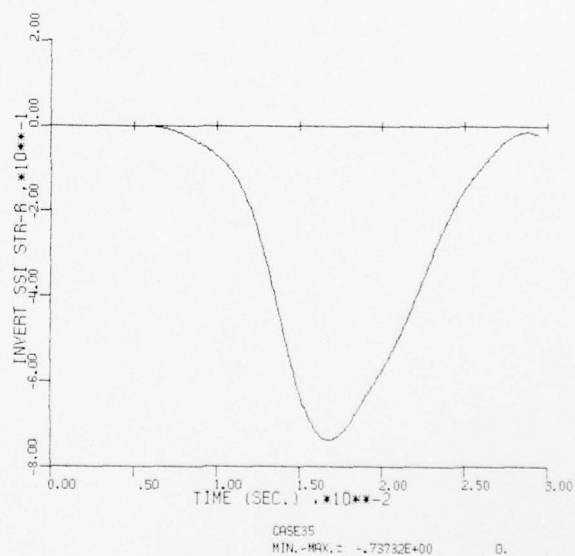
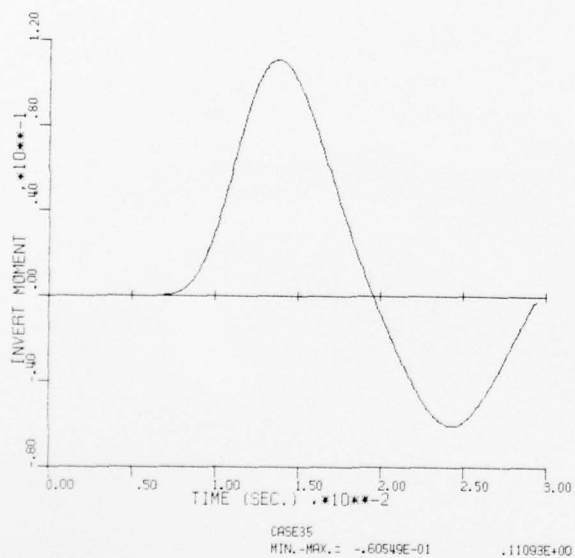
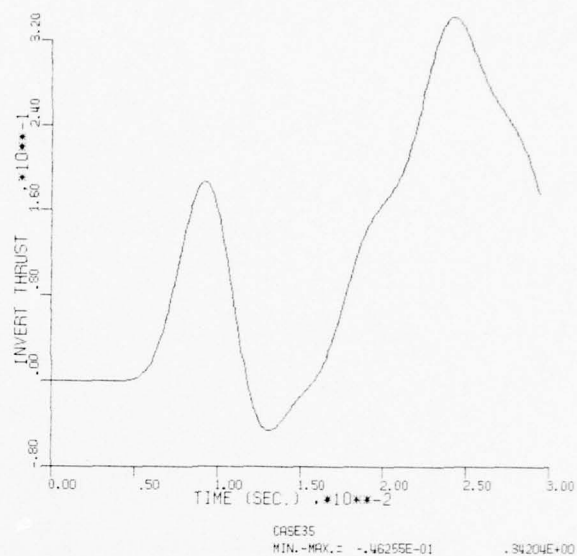
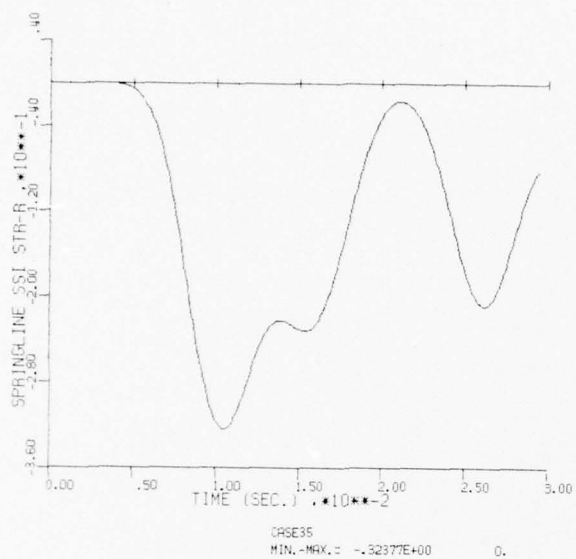


CASE 35  
SSI SHEAR STR., MODE 5  
Not Available









## CASE36

## MIN.VALUES

		T	M	V	STR-F	STR-T	TAU-RT
CR	1	-.040786	0.0000000	-.067285	-1.822020	-.615363	-.050487
	2	-.029141	0.0000000	-.157508	-1.695956	-.559632	-.079325
	3	-.023388	0.0000000	-.247599	-1.506783	-.542557	-.024211
	4	-.028329	-.0000413	-.306835	-1.421890	-.425567	-.064960
	5	-.012246	-.0061865	-.331627	-1.119195	-.437972	0.000000
	6	-.003796	-.0220173	-.349016	-1.024604	-.377365	-.072456
	7	-.006018	-.0392728	-.317602	-.712529	-.376876	-.025540
	8	0.000000	-.0527648	-.296738	-.608863	-.348175	-.018337
	9	0.000000	-.0602834	-.257931	-.568706	-.282283	-.029063
	10	0.000000	-.0719419	-.242187	-.459197	-.282346	-.185728
SPR	11	0.000000	-.0715657	-.215708	-.367239	-.309213	-.153073
	12	0.000000	-.0703937	-.175664	-.324756	-.419484	-.219909
	13	0.000000	-.0624663	-.119237	-.437499	-.254617	-.290988
	14	0.000000	-.0657187	-.087526	-.415325	-.237983	-.278127
	15	0.000000	-.0639683	-.030264	-.450166	-.264577	-.337241
	16	0.000000	-.0636961	-.008247	-.456591	-.233803	-.319769
	17	0.000000	-.0521693	0.000000	-.456294	-.166927	-.259960
	18	0.000000	-.0445217	-.000393	-.488576	-.270758	-.358512
	19	0.000000	-.0316880	-.002076	-.479593	-.249166	-.362003
	20	0.000000	-.0189945	-.007777	-.426752	-.131566	-.323088
INV	21	-.038093	-.0041456	-.011786	-.399926	-.178481	-.290378
	22	-.050336	-.0000000	-.013557	-.434960	-.155406	-.216560
	23	-.064876	-.0000000	-.010342	-.495073	-.170292	-.166813
INV	24	-.074134	-.0000000	-.030375	-.448299	-.174159	-.073740

## MAX.VALUES

		T	M	V	STR-R	STR-T	TAU-RT
CR	1	.647468	.0560406	.031193	.007861	.075049	.092172
	2	.663484	.0519646	.023815	0.000000	.062895	.238932
	3	.721714	.0442030	.044457	.015135	.109125	.389885
	4	.768483	.0335751	.013253	.015926	.047959	.310012
	5	.836467	.0341596	0.000000	0.000000	.046309	.351111
	6	.915230	.0282982	.000002	0.000000	.056536	.272731
	7	.936382	.0210850	.001778	.008633	.040794	.343282
	8	.966863	.0093515	.010729	0.000000	.010948	.194601
	9	.954328	.0009952	.038228	.010784	0.000000	.323798
	10	.905421	.0013635	.090656	.048011	0.000000	.197983
SPR	11	.845712	.0000000	.146059	.065075	0.000000	.220726
	12	.799795	.0000000	.185873	.096940	0.000000	.072521
	13	.709990	.0000586	.216218	.003328	.021584	.189417
	14	.635671	.0003497	.221674	.052991	.004504	.000000
	15	.596915	.0014848	.231961	.105887	0.000000	0.000000
	16	.562516	.0038759	.225419	.061213	.062943	.048131
	17	.527169	.0079855	.244979	.019136	.055252	.085610
	18	.483978	.0149140	.244167	0.000000	.029833	0.000000
	19	.408780	.0217376	.232992	.035215	.006859	0.000000
	20	.357499	.0291668	.234576	0.000000	0.000000	.082530
INV	21	.280672	.0329060	.220767	0.000000	0.000000	.068876
	22	.249673	.0349225	.208507	0.000000	0.000000	.149566
	23	.264292	.0353493	.109066	0.000000	.042280	.191680
	24	.262604	.0355524	.056991	0.000000	.105226	.078925

LINLR THRUST PLAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODL 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.80527E-01	-.26240E+00	-.12510E+00	-.45333E-01	-.36658E-01	-.20090E-01
MAX	.56154E+00	.37239E+00	.87726E-01	.67014E-01	.47922E-01	.22706E-01

LINLR MOMENT PLAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.11963E-01	-.53556E-02	-.18546E-01	-.11948E-01	-.55430E-02	-.22824E-02
MAX	.83874E-03	.17254E-01	.28487E-01	.64659E-02	.29258E-02	.50651E-02

LINLR SHEAR PLAK MODAL AMPLITUDES						
MODE 0	MODL 1	MODE 2	MODL 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.32886E-01	-.19418E+00	-.15976E+00	-.57843E-01	-.23932E-01	-.26910E-01
MAX 0.	.24483E-01	0.	.92489E-01	.89955E-01	.48052E-01	.33552E-01

SSI RADIAL STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN	-.41556E+00	-.56833E+00	-.29592E+00	-.18142E+00	-.88452E-01	-.48055E-01
MAX 0.	.12560E+00	.54644E-01	.14246E+00	.20345E+00	.20024E+00	.12903E+00

SSI SHEAR STR. PEAK MODAL AMPLITUDES						
MODE 0	MODE 1	MODE 2	MODE 3	MODE 4	MODE 5	MODE 6
MIN 0.	-.92692E-01	-.26308E-01	-.64616E-01	-.88781E-01	-.69262E-01	-.51611E-01
MAX 0.	.17427E-01	.25931E+00	.13462E+00	.79952E-01	.45862E-01	.16440E-01

# CASE36

```

CROWN THRUST
*****
MODE 0      MODES 0-1  MODES 0-2  MODES 0-3  VARIABLE 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS      .015985      .003620      .000859      .000526      .001150      .000046      .001588      VARIABLE
MIN.      0.000000      .266243      1.328897      1.006047      .794102      1.035843      .785698      -.40786E-01
MAX.      .267280      1.391318      1.222674      1.038029      .981194      .982067      1.004208      .64747E+00

```

```

CROWN MOMENT
*****
MODE 0      MODES 0-1  MODES 0-2  MODES 0-3  VARIABLE 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS      .016364      .013934      .011079      .003266      .001957      .001036      .004557      VARIABLE
MIN.      -.011903      -.009657      0.000000      0.000000      0.000000      0.000000      0.000000      .12976E-02
MAX.      .011907      .159594      .924725      1.100152      1.086389      1.057024      1.020688      .56041E-01

```

```

CROWN SSI STR-R
*****
MODE 0      MODES 0-1  MODES 0-2  MODES 0-3  VARIABLE 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS      .006179      .003675      .005246      .001338      .002303      .000407      .001225      VARIABLE
MIN.      .288078      .511644      .723414      .880656      .971445      1.006918      1.014001      -.18220E+01
MAX.      0.000000      5.509175      9.900000      2.474896      5.395192      3.590753      5.967283      .78608E-02

```

```

SPRINGLINE THRUST
*****
MODE 0      MODES 0-1  MODES 0-2  MODES 0-3  VARIABLE 0-4  MODES 0-5  MODES 0-6  INPUT
SRSS      .002401      .002873      .001267      .001228      .000865      .001083      .001980      VARIABLE
MIN.      0.000000      0.000000      -.000000      -.000000      -.000001      -.000005      -.000000      .17810E-01
MAX.      .702100      .729053      .938055      .966823      .979633      .990078      .972023      .79979E+00

```



```

SPRINGLINE MOMENT
*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
VARIABLE
INPUT
.18728E-02
.70394E-01
.27228E-07

```

```

SPRINGLINE GSI STR-R
*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
VARIABLE
INPUT
.42442E-02
.32476E+00
.96940E-01

```

```

INVERT THRUST
*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
VARIABLE
INPUT
.54333E-02
.74134E-01
.26260E+00

```

```

INVERT MOMENT
*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
VARIABLE
INPUT
.10074E-02
.56535E-08
.35552E-01

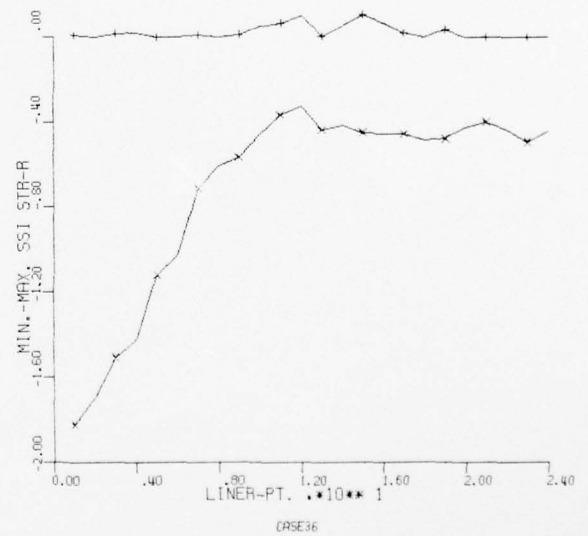
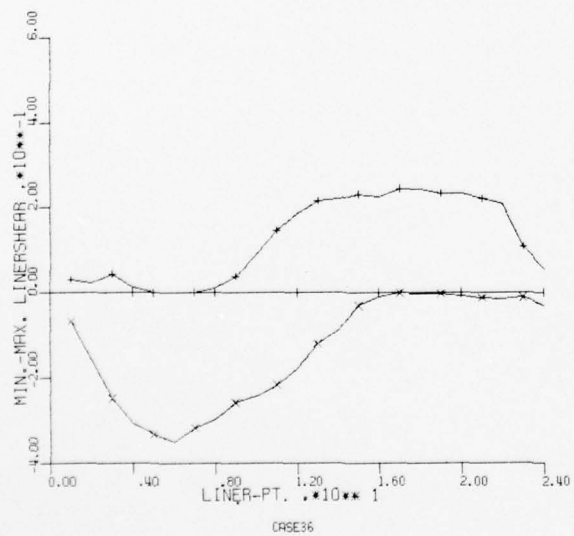
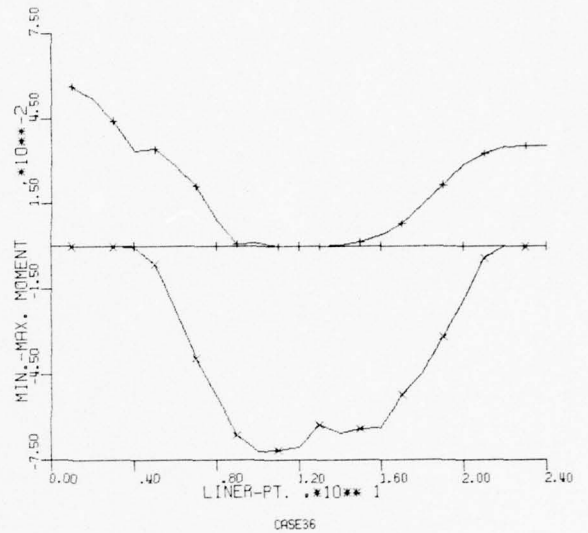
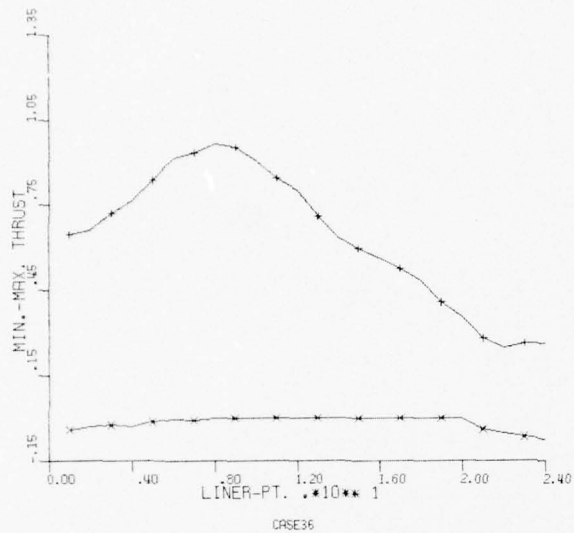
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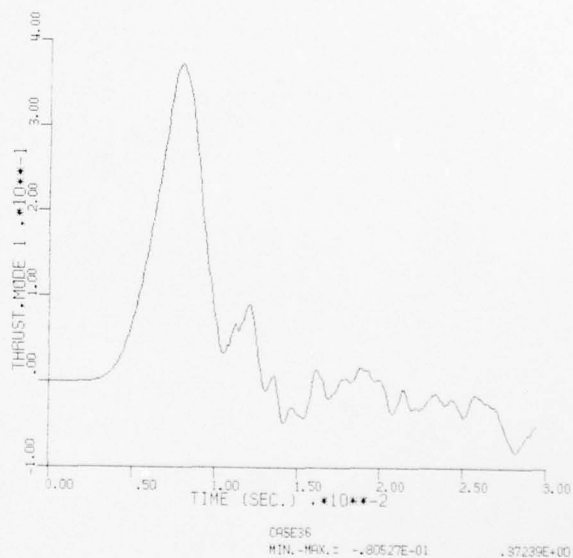
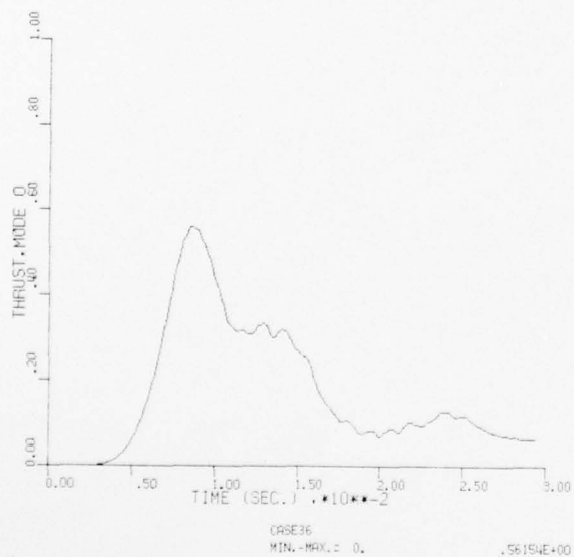
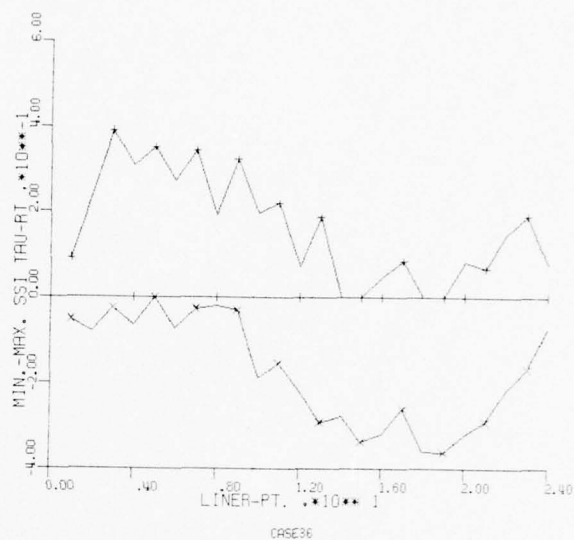
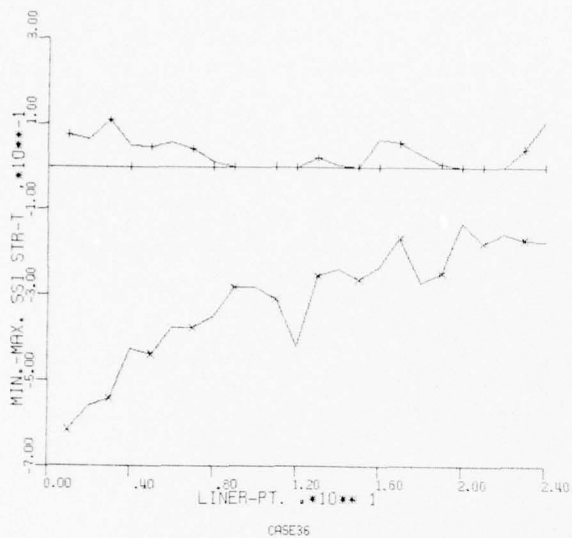
```

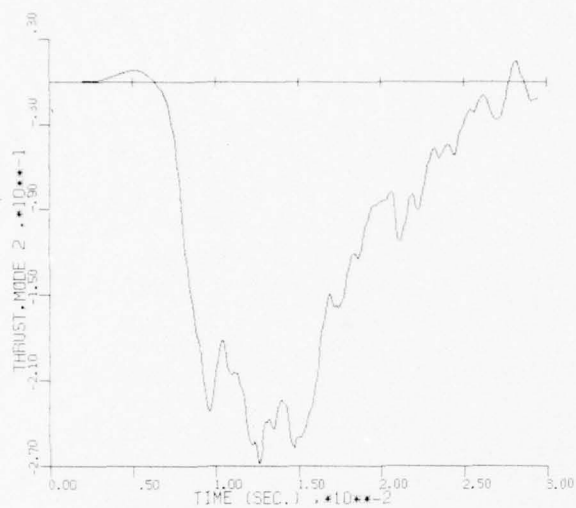
INVERT GSI STR-R
*****
MODE 0 MODS 0-1 MODS 0-2 MODS 0-3 MODS 0-4 MODS 0-5 MODS 0-6
VARIABLE
INPUT
.92026E-02
.44830E+00
0.

```

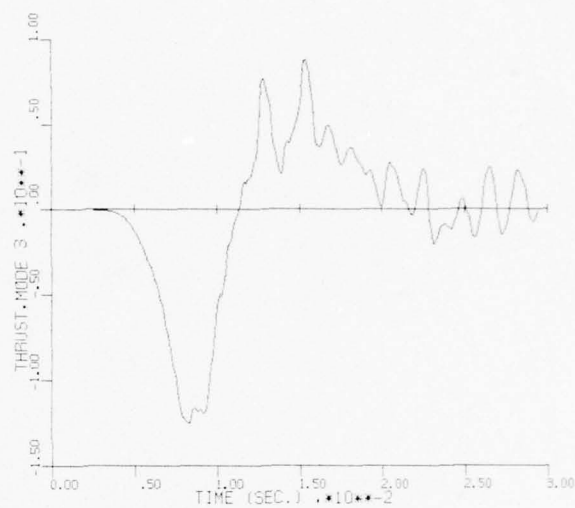




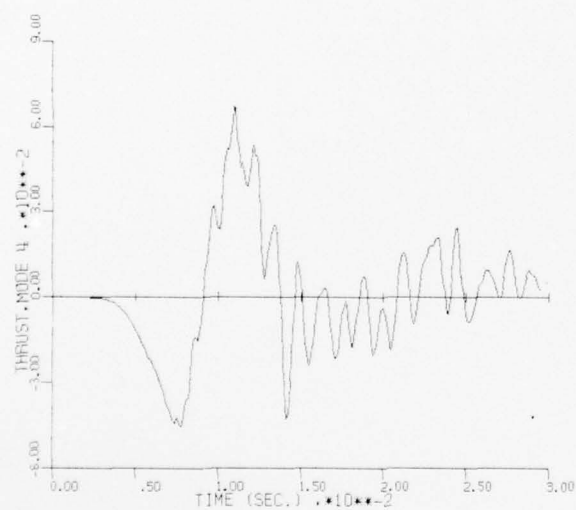




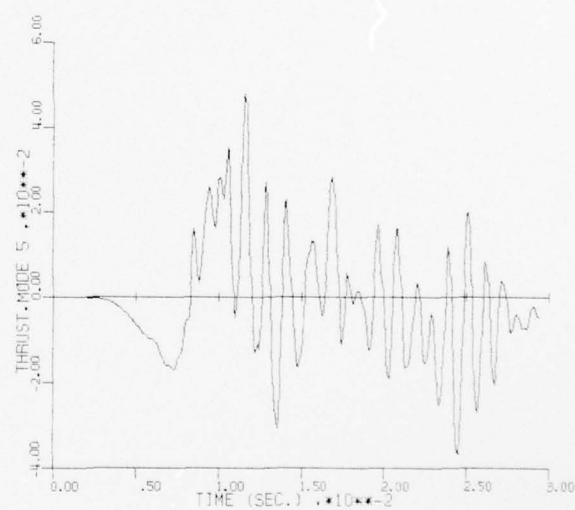
CASE36  
MIN.-MAX. = -.26840E+00 .14332E-01



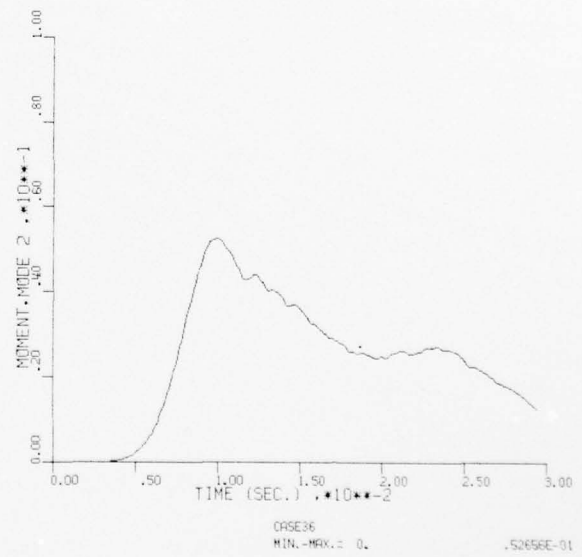
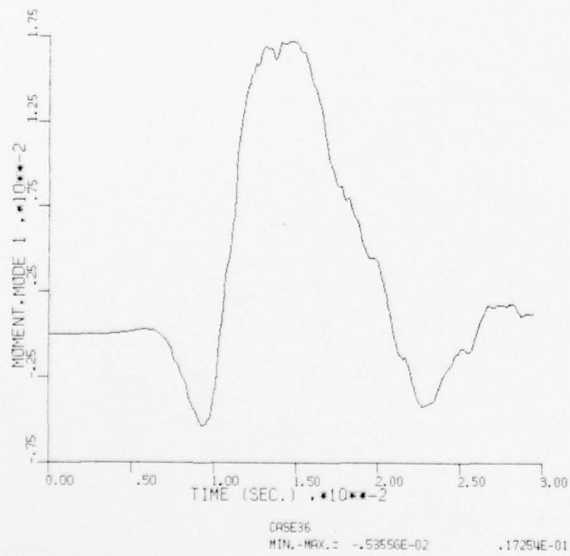
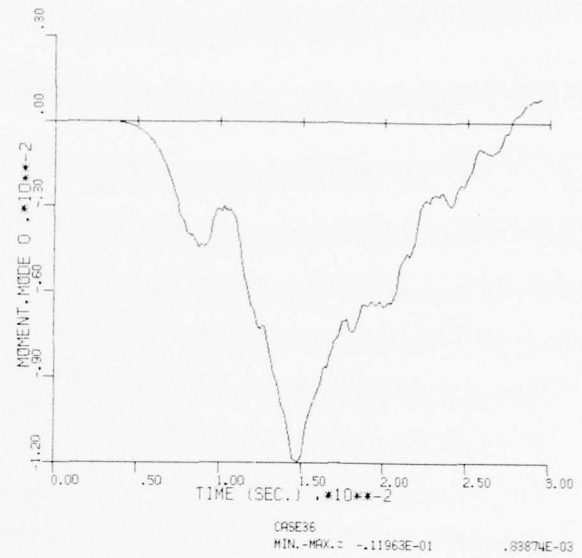
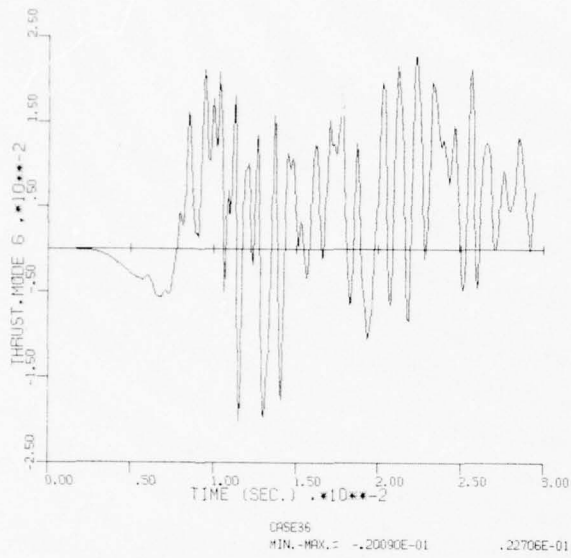
CASE36  
MIN.-MAX. = -.12510E+00 .87726E-01

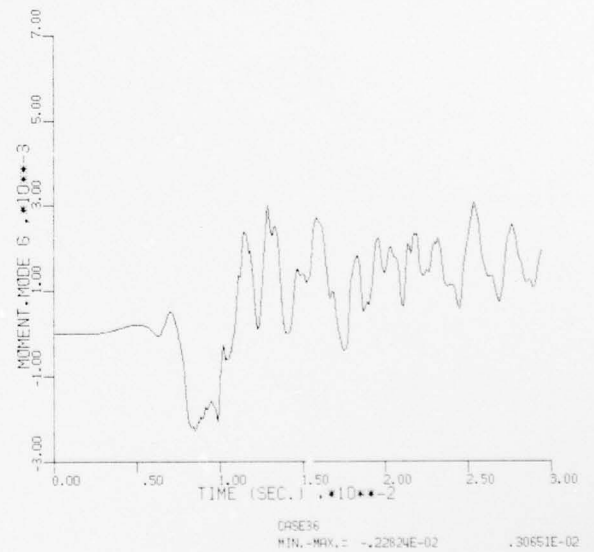
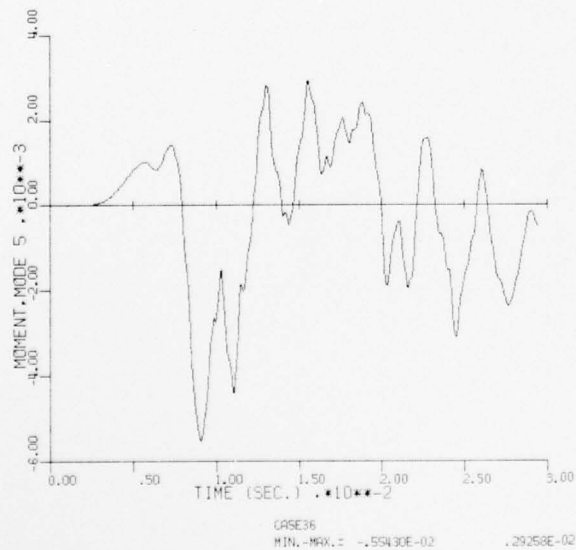
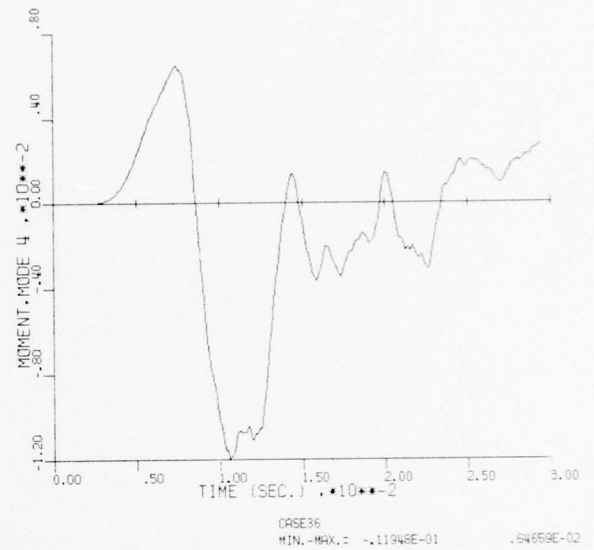
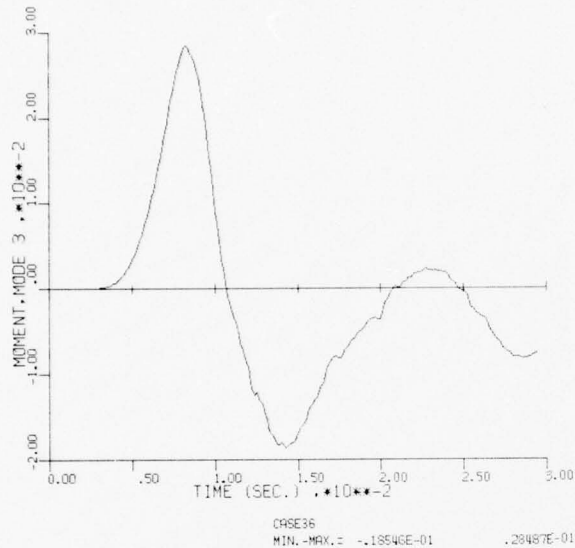


CASE36  
MIN.-MAX. = -.45333E-01 .67014E-01

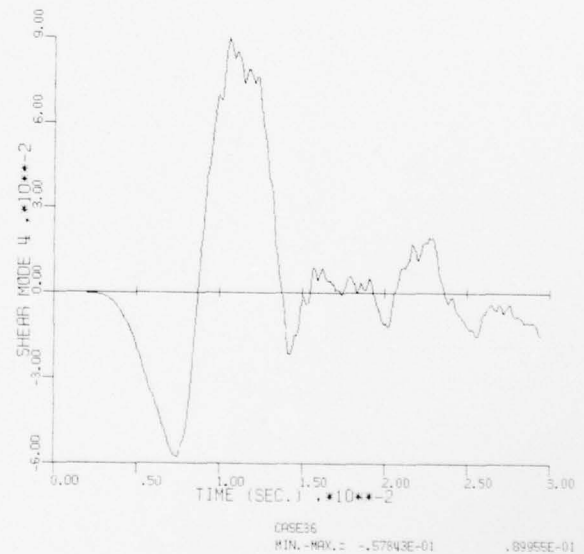
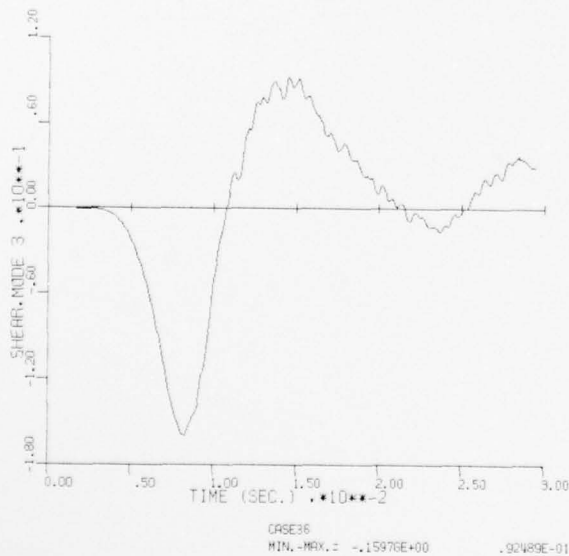
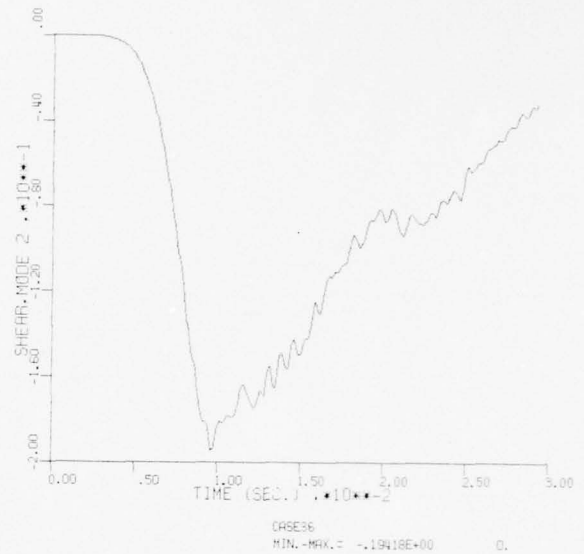
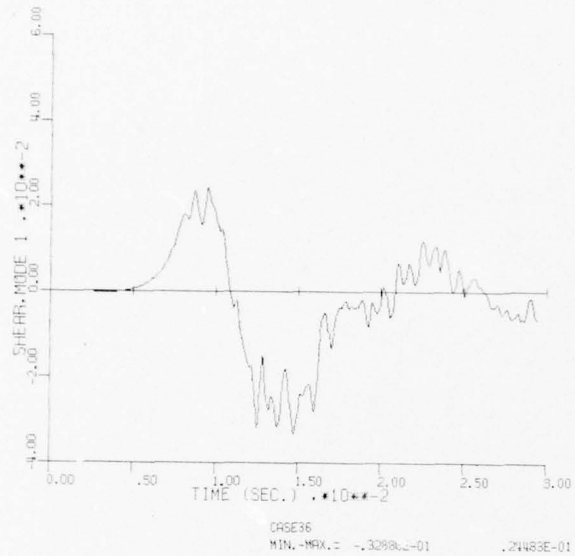


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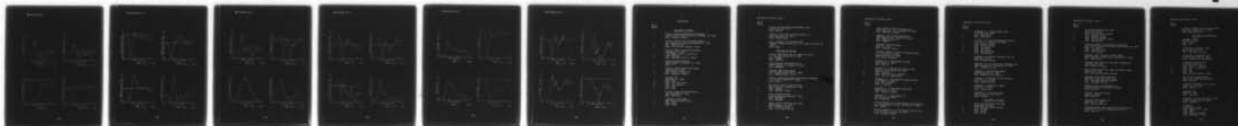
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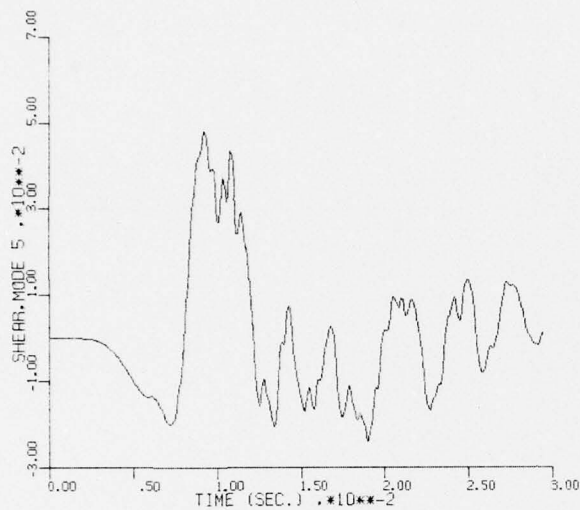


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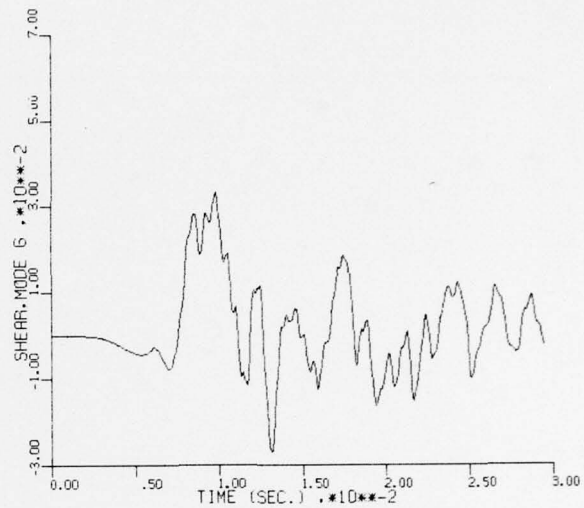
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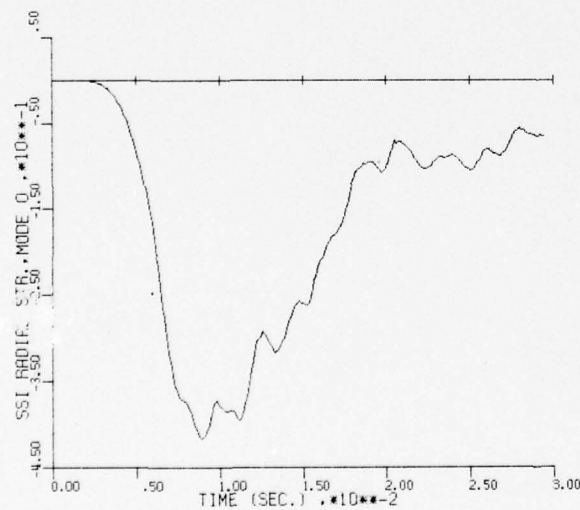
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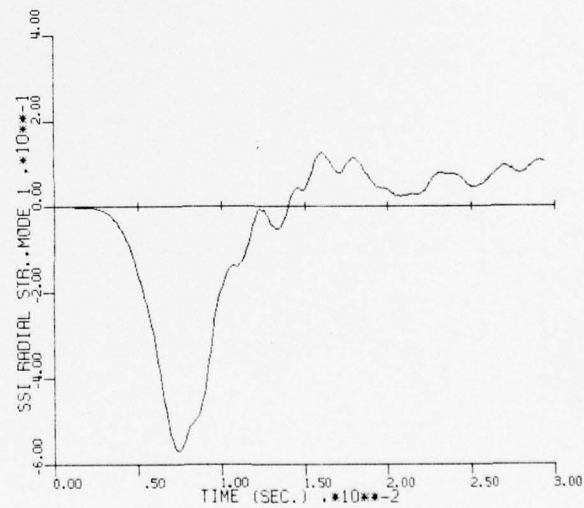
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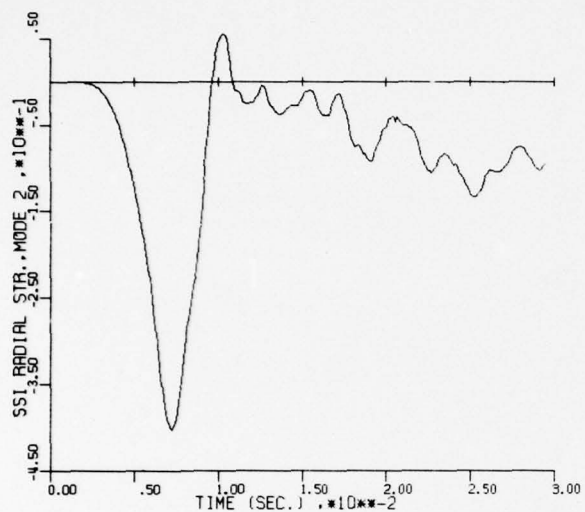
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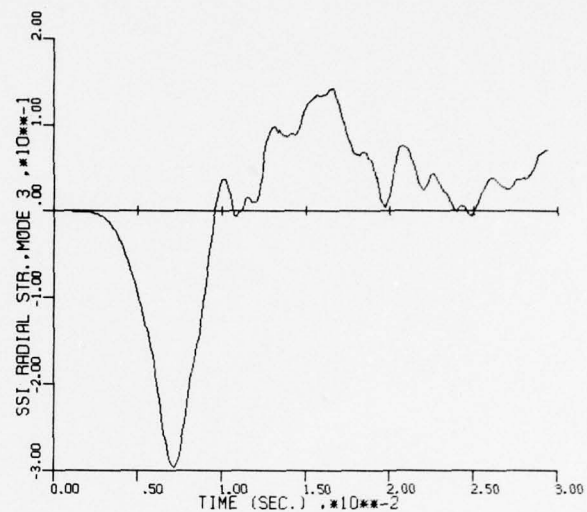
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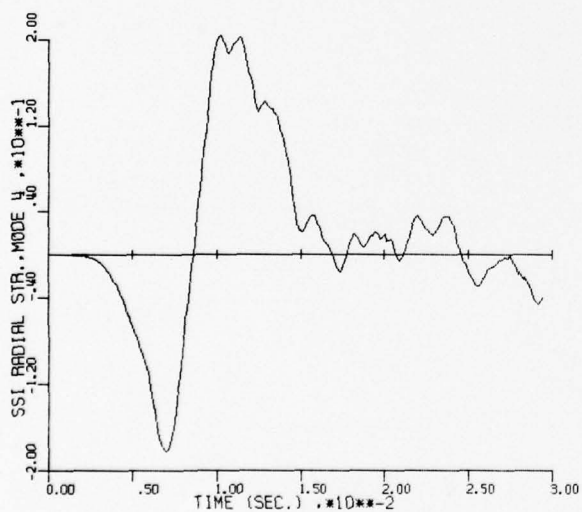
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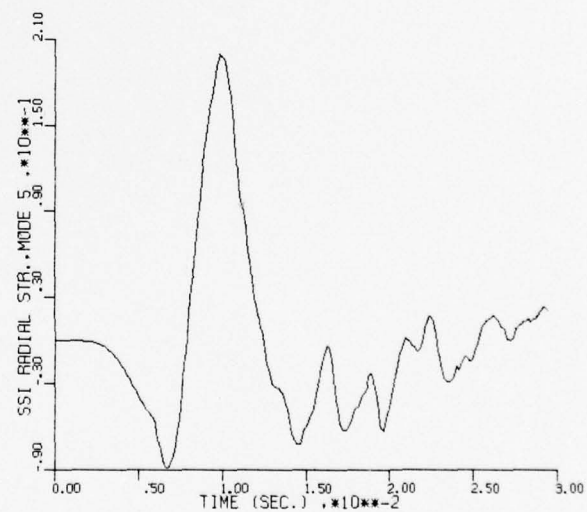
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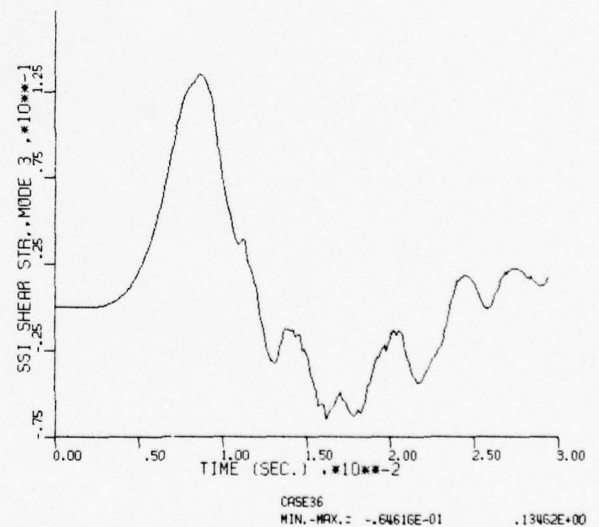
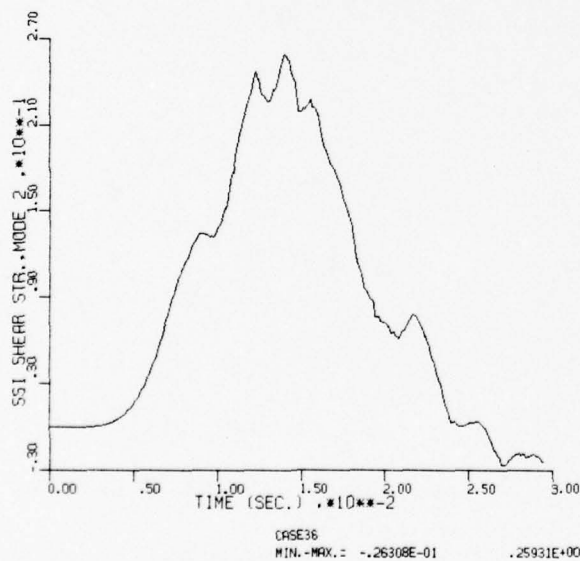
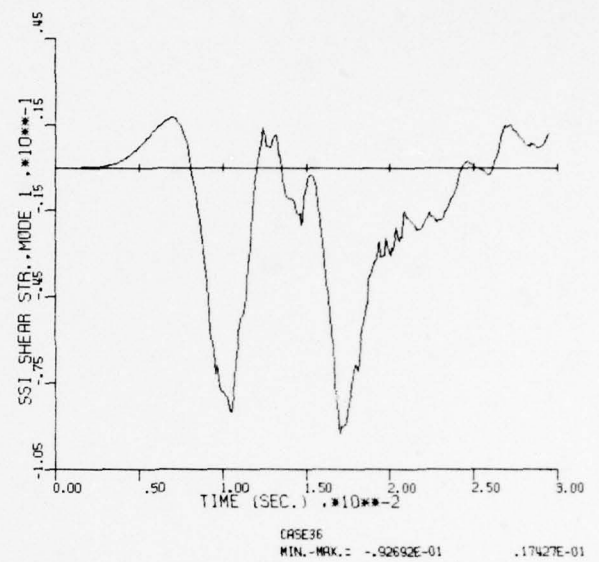
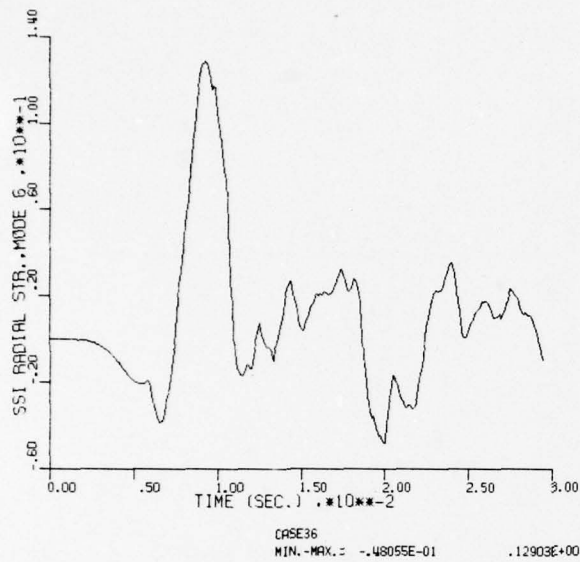
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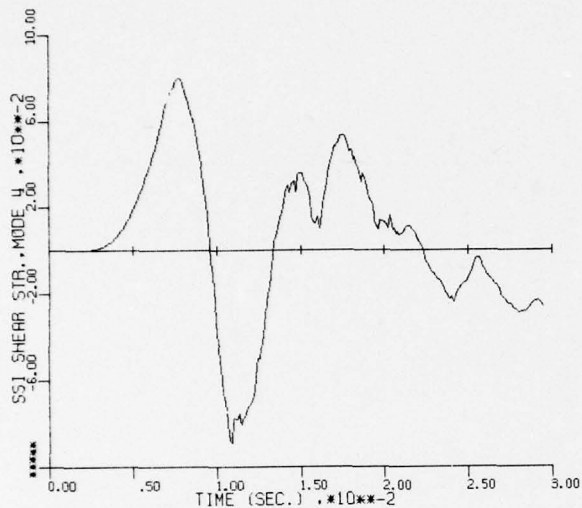
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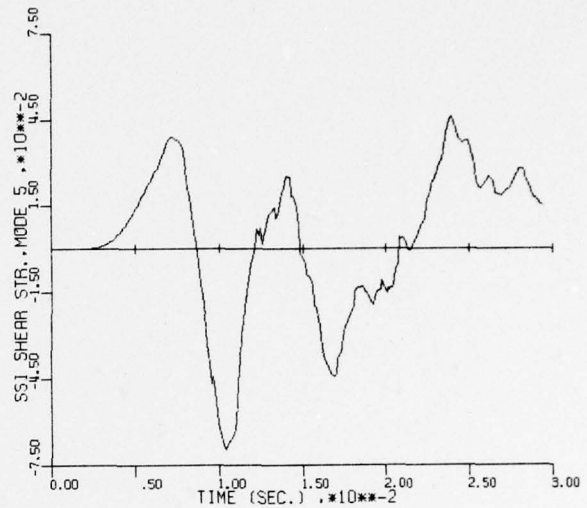
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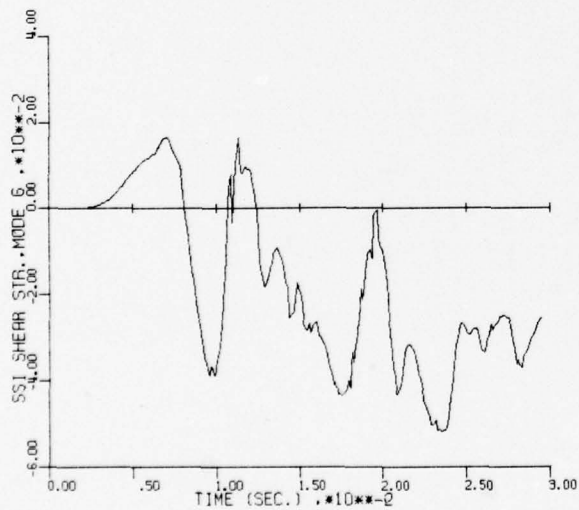




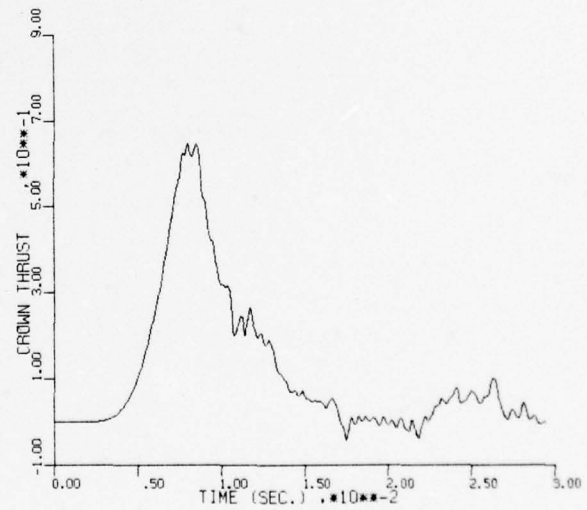
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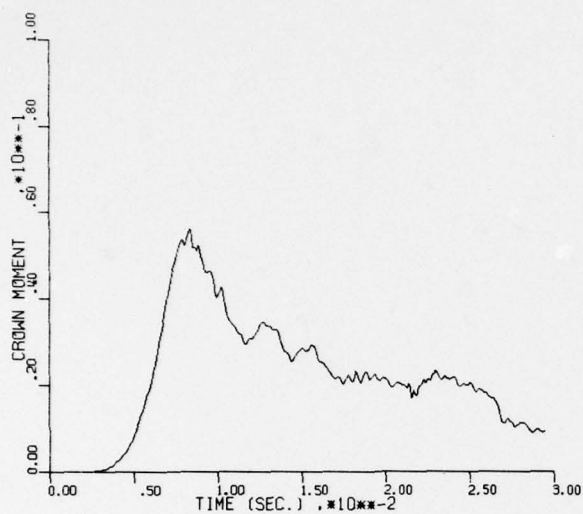
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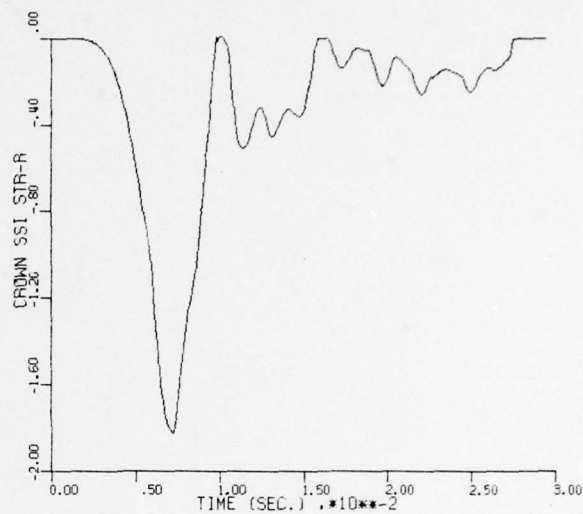
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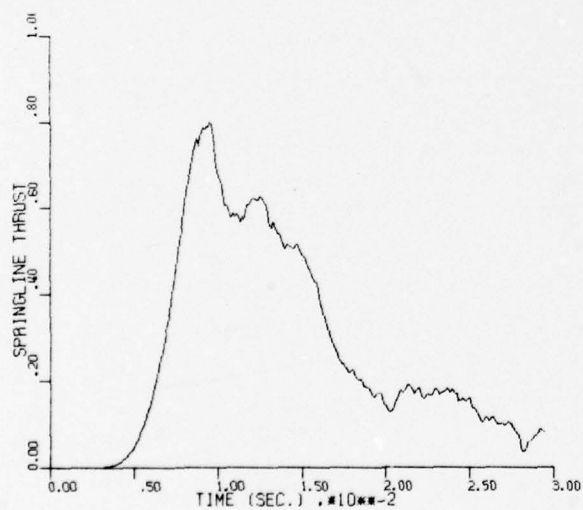
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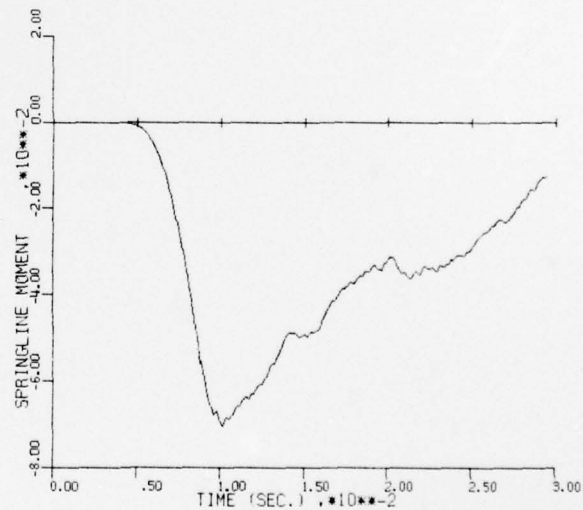
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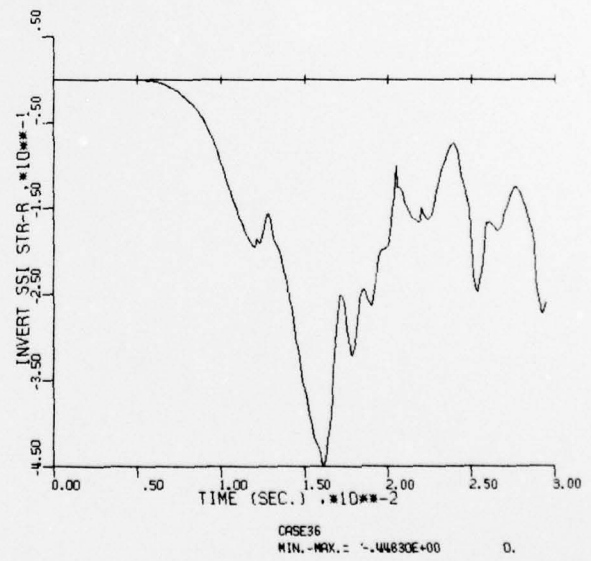
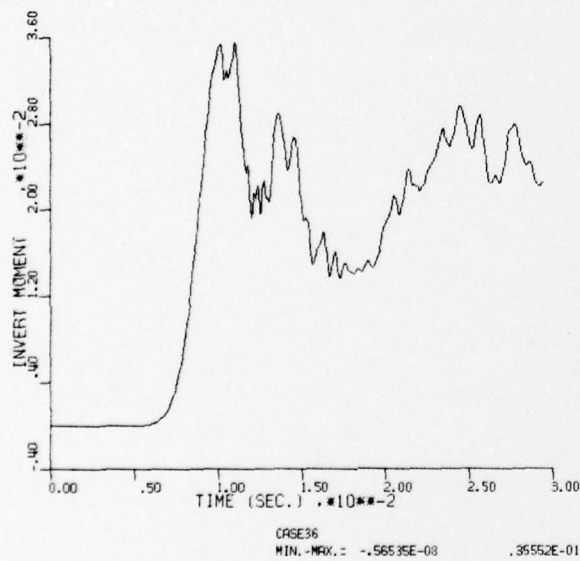
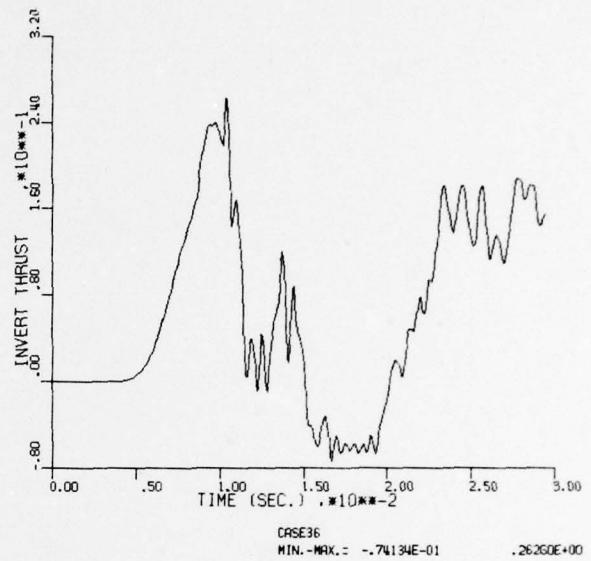
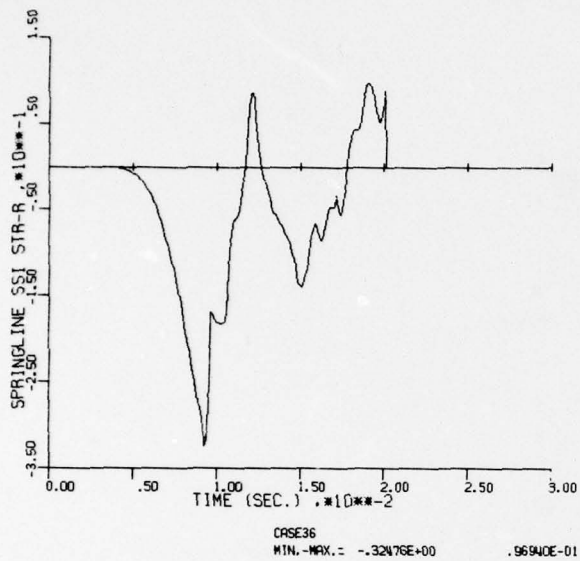
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